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Geotechnical
Environmental and
Water Resources
Engineering

RTN 3-23246

Volume 2: Tables

Phase II Comprehensive Site Assessment, Method 3 Risk Characterization, and Phase III Remedial Action Plan

50 Tufts Street, Somerville, Massachusetts

Submitted to:
UniFirst Corporation
68 Jonspin Road
Wilmington, MA 01887

REF
354,
353
GEI

Prepared by:
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July 14, 2008
Project No. 04516-2

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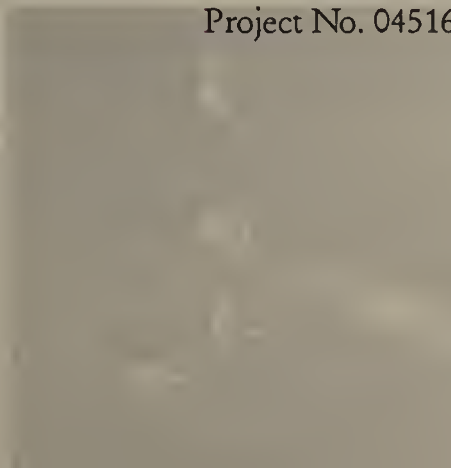

Ileen S. Gladstone, P.E., LSP, LEED AP
Vice President

Table 1-1
DEP Regulatory Submittals (RTN: 3-23246)
50 Tufts Street
Somerville, Massachusetts

1. **Imminent Hazard Evaluation,** RTNs 3-23246 and 3-24358, 50 Tufts Street, Somerville, Massachusetts, dated January 9, 2006.
2. **IRA Plan**, 50 Tufts Street, Somerville, Massachusetts, RTNs 3-23246, 3-24358 and 3-24376, dated January 9, 2006.
3. **IRA Status Report No. 1**, 50 Tufts Street, Somerville, Massachusetts, RTNs 3-23246, 3-24358 and 3-24376, dated May 8, 2006.
4. **Phase I, Initial Site Investigation, and Tier Classification**, 50 Tufts Street, Somerville, Massachusetts, RTNs 3-23246, 3-24358 and 3-24376, dated June 16, 2006.
5. **Interim IRA Status Report and IRA Plan Modification**, 50 Tufts Street, Somerville, Massachusetts, RTNs 3-23246, 3-24358 and 3-24376, dated June 27, 2006.
6. **Imminent Hazard Retraction**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-26114, dated September 21, 2006.
7. **IRA Plan Modification No. 2**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-23246, dated September 21, 2006.
8. **IRA Plan,** RTN 3-26114, 50 Tufts Street, Somerville, Massachusetts, dated November 13, 2006.
9. **IRA Status Report No. 2 and Plan Modification No. 3**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-23246, dated November 13, 2006.
10. **IRA Plan Modification No. 4**, 50 Tufts Street, Somerville, Massachusetts, RTNs 3-23246 and 3-26114, dated February 22, 2007.
11. **IRA Plan**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-26114, dated April 9, 2007.
12. **IRA Plan Modification No. 1**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-26114, dated April 12, 2007.
13. **IRA Plan Modification No. 5**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-23246, dated May 5, 2007.
14. **IRA Status Report No. 3**, 50 Tufts Street, Somerville, Massachusetts, RTN 3-23246 & **IRA Status Report No. 1** RTN 3-26114, dated May 16, 2007.
15. **Phase II Scope of Work**, RTNs 3-23246 and 3-26114, 50 Tufts Street, Somerville, Massachusetts, dated May 18, 2007.
16. **IRA Plan Modification No. 6**, 50 Tufts Street, RTN 3-23246. Somerville, Massachusetts, dated July 5, 2007.
17. **Phase II Scope of Work Amendment**, RTNs 3-23246 and 3-26114, 50 Tufts Street, Somerville, Massachusetts, dated July 31, 2007.
18. **Remedial Monitoring Report No. 1**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated August 30, 2007.
19. **Monthly Remedial Monitoring Report No. 2**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated August 30 2007.

Table 1-1
DEP Regulatory Submittals (RTN: 3-23246)
50 Tufts Street
Somerville, Massachusetts

20. **Monthly Remedial Monitoring Report No. 3**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated August 30, 2007.
21. **Monthly Remedial Monitoring Report No. 4**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated August 30, 2007.
22. **IRA Plan Modification No. 7,** RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated October 11, 2007.
23. **IRA Plan Modification No. 8,** RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated October 11, 2007.
24. **Monthly Remedial Monitoring Report No. 5**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated October 19, 2007.
25. **Monthly Remedial Monitoring Report No. 6A**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated October 31, 2007.
26. **Monthly Remedial Monitoring Report No. 6B**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated November 8, 2007.
27. **Monthly Remedial Monitoring Report No. 7A**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated November 8, 2007.
28. **Monthly Remedial Monitoring Report No. 7B**, RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated November 8, 2007.
29. **IRA Plan Modification No. 9,** RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated November 9, 2007.
30. **IRA Status Report No. 4,** RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated November 9, 2007.
31. **IRA Plan Modification No. 10,** RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated December 17, 2007.
32. **Phase II Scope of Work Amendment No.2,** RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated February 19, 2008.
33. **IRA Plan Modification No.11,** RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated April 9, 2008.
34. **IRA Plan Modification No. 12,** RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated April 15, 2008.
35. **IRA Status Report No. 5 & Remedial Monitoring Report No. 8,** RTN 3-23246, 50 Tufts Street, Somerville, Massachusetts, dated, May 9, 2008.

Table 2-1
List of Residential and Commercial Properties within the Disposal Site
50 Tufts Street
Somerville, Massachusetts

Property	Building Description
2 Alston Street	Multi-family residential
6 Alston Street	Multi-family residential
10 Alston Street[a]	Garage
12 Alston Street	Multi-family residential
16-20 Alston Street	Multi-family residential
30-40 Alston Street	Commercial
30-32 Cobble Hill Road	Commercial
142 Cross Street	Commercial
9 Franklin Avenue	Single-family residential
10 Franklin Avenue	Single-family residential
12 Franklin Avenue	Multi-family residential
18 Franklin Avenue	Single-family residential
20 Franklin Avenue	Single-family residential
74 Franklin Street	Multi-family residential
76 Franklin Street	Single-family residential
80 Franklin Street	Multi-family residential
82 Franklin Street	Single-family residential
86 Franklin Street	Multi-family residential
91-93 Franklin Street	Multi-family residential
95 Franklin Street	Single-family residential
95R Franklin Street	Single-family residential
97 Franklin Street	Single-family residential
97R Franklin Street	Single-family residential
99 Franklin Street	Multi-family residential
152-154 Glen Street	Multi-family residential
156 Glen Street	Multi-family residential
159 Glen Street	Single-family residential
162-164 Glen Street	Multi-family residential
163 Glen Street	Commercial
166-168 Glen Street	Multi-family residential
2 Hadley Court #2a	Multi-family residential
2 Hadley Court #2b	Multi-family residential
2 Hadley Court #2c	Multi-family residential
9 Knowlton Street	Multi-family residential
12-14 Knowlton Street	Multi-family residential
13 Knowlton Street	Multi-family residential
17 Knowlton Street	Multi-family residential
19 Knowlton Street	Multi-family residential
23 Knowlton Street	Multi-family residential
27 Knowlton Street	Multi-family residential
29 Knowlton Street	Multi-family residential

Footnote:

(a) Property contains non-commercial garage only. There is no living space.

Table 2-1
List of Residential and Commercial Properties within the Disposal Site
50 Tufts Street
Somerville, Massachusetts

Property	Building Description
31-33 Knowlton Street	Multi-family residential
32 Knowlton Street	Multi-family residential
34 Knowlton Street[a]	Garage
35-37 Knowlton Street	Multi-family residential
4 Morton Street	Multi-family residential
6-8 Morton Street	Multi-family residential
7 Morton Street	Multi-family residential
10 Morton Street	Single-family residential
11 Morton Street	Multi-family residential
12 Morton Street	Multi-family residential
13 Morton Street	Multi-family residential
15-17 Morton Street	Multi-family residential
18 Morton Street	Multi-family residential
19-19A Morton Street	Multi-family residential
21 Morton Street	Multi-family residential
5 Palmer Avenue	Single-family residential
9 Tufts Street	Multi-family residential
11-13 Tufts Street	Multi-family residential
17 Tufts Street	Multi-family residential
19 Tufts Street	Multi-family residential
23 Tufts Street	Multi-family residential
25 Tufts Street	Multi-family residential
27 Tufts Street	Multi-family residential
45-47 Tufts Street	Multi-family residential
49 Tufts Street	Single-family residential
51-51A Tufts Street	Multi-family residential
53 Tufts Street	Multi-family residential
60 Tufts Street	Multi-family residential
79 Washington Street	Single-family residential
81-83 Washington	Multi-family residential
85 Washington Street	Commercial
91 Washington Street	Commercial
97 Washington Street	Commercial
103 Washington Street	Commercial
105-107 Washington Street	Multi-family residential
111 Washington Street	Multi-family residential
113 Washington Street	Commercial
117 Washington Street	Multi-family residential
120 Washington Street	Commercial
121 Washington Street	Commercial
137 Washington Street	Commercial

Footnote:

a. Property contains non-commercial garage only. There is no living space.

Table 3-1
Commercial Property Ownership and Use (50 Tufts Street Property)
50 Tufts Street
Somerville, Massachusetts

Approximate Dates	Property Owner	Tenant	General Operations
3/1/2008 – Present	Somerville Two, LLC	John's Auto Sales	Automobile storage
5/10/2005 – 3/1/2008	Somerville Two, LLC	Vacant	None
12/31/2004 – 5/10/2005	50 Tufts St., Inc.	Vacant	None
2002 – 12/31/2004	50 Tufts St., Inc.	Father & Son Moving and Storage	Office space and storage
5/21/1987 – 8/2002	50 Tufts St., Inc.	Father & Son Moving and Storage(a) and John Danais Co., Inc.	Office space, storage, laundry supply(b)
9/27/1985 - 5/21/1987	Superior Products and Equipment Co., Inc. (1976)	John Danais Co., Inc.	Laundry supply and distributor of industrial chemicals
9/30/1976 – 9/27/1985	Superior Products and Equipment Co., Inc. (1976)	Property Owner	Laundry supply and distributor of industrial chemicals
1954 - 1976	Wahlen	Superior Products Co., Inc. (1950)	Laundry supply and distributor of industrial chemicals

General Notes:

1. Sources of the above information include historic Sanborn Fire Insurance maps; City of Somerville Atlases; and public documents such as municipal records, deeds, and purchase agreements relative to the sale of the Property.
2. Superior Products Co., Inc. (1950) refers to the company named Superior Products Co., Inc. that was incorporated in 1950.
3. Superior Products and Equipment Co., Inc. (1976) refers to the company named Superior Products and Equipment Co., Inc. that was incorporated in 1976.
4. Prior to 1950 the property was residential.

Footnotes:

(a) A Certificate of Use and/or Occupancy was issued by the city of Somerville Building Inspection Department on July 10, 1990, for office and storage space use for a moving company.

(b) Father & Son Moving and Storage used a portion of the building as office space. John Danais Co., Inc. operated a laundry supply business.

(c) Walter Wahlen purchased the Property in 1954. Boston Safe Deposit & Trust Co., Inc. and Frank E. Wahlen, co-executors of Walter Wahlen's will, sold the Property in 1976.

Table 3-2

Off-Property DEP-listed Sites and Other Reported Releases within the Disposal Site

50 Tufts Street
Somerville, Massachusetts

Release Tracking Number (RTN)	EDR Ref. #	Site Address	Notification Date	Regulatory Status	Brief Description of Site, Spill, or Release
3-19047	B10	120 Washington Street	12/6/1999	Closed: Class B-1 RAO	Release of benz(a)anthracene
3-14792	A5	60 Tufts Street	2/4/1997	Closed: Class A-1 RAO	~ 100 lbs of asbestos removed from boiler and associated piping
3-11570	E19	91 Washington Street	9/7/1994	Closed: Class A-3 RAO	Release of oil from a LUST at Joe Bera Trucking facility
N93-0038	X108 [(a)]	41 Franklin Street	1/26/1993	Closed	Release of approximately 11-50 gallons of waste oil
N89-1109	X108 [(a)]	41 Franklin Street	7/6/1989	Closed	Release of approximately 10-50 gallons of transformer oil
3-18255	F23	9 Palmer Court	5/3/1999	Closed: Class A-2 RAO	Release of PCBs to soil
N91-0495	S84 [(a)]	75 Washington Street	4/12/1991	Closed	Dumping of waste paint thinner in a drain at Alex Autobody facility
3-19190	N/A [(b)]	Washington Street RR Track	1/20/2000	Closed: Class A-1 RAO	Release of 40 gallons of diesel fuel and 15 gallons of unknown chemical

General Notes:

1. Information from Environmental Data Report (EDR), April 25, 2008; and DEP Sites Database, accessed May 1, 2008.
2. RAO = Response Action Outcome.
3. LUST = Leaking Underground Storage Tank.
4. PCBs = Polychlorinated Biphenyls.

Footnotes:

(a) Included in EDR, January 25, 2007; and DEP Sites Database, accessed January 29, 2008, but not in EDR from April 25, 2008.
(b) No EDR # available.

Table 3-3
Summary of Historic Reported Releases (50 Tufts Street Property)
50 Tufts Street
Somerville, Massachusetts

Report Date of Release	RTN	Consultant	Release Description	Result of Release
10/3/2003	3-23246	SHA	-During a sub-surface investigation, PCE, TCE, and associated chlorinated solvents were detected in excess of RCS-1 and RCGW-2 in soil and groundwater at the 50 Tufts Street property.	-DEP issued an NOR to the Property owners; 50 Tufts Street, Inc.
10/22/2004	3-24358	SHA	-PCE, TCE, and chlorinated VOCs were detected in indoor air at levels that reportedly may constitute an Imminent Hazard for a 4-hour commercial worker in the 50 Tufts Street building.	-DEP issued an NOR to John Danais, Co., identified as the Property owner by SHA.
11/5/2004	3-24376	GeoInsight, Inc.	-Total VOCs greater than 5 mg/l were detected in groundwater samples collected from 2 monitoring wells within 30 feet of residences.	-DEP issued an NOR to 50 Tufts Street, Inc. to conduct an IRA to evaluate a CEP and/or a condition of SRM.
3/24/2005	NA	DEP	-Discussion between Ms. Irene Dale of DEP, and Mr. Richard Papa, resident at 27 Tufts Street, in which Mr. Papa identified historic releases of PCE at the 50 Tufts Street Property.	N/A
8/1/2006	3-26114	GEI	-PCE was detected in indoor air at residences on Tufts Street at levels that reportedly may constitute an imminent hazard.	-GEI implemented IRA activities.

General Notes:
1. CEP = Critical Exposure Pathway.
2. DEP = Massachusetts Department of Environmental Protection.
3. IRA = Immediate Response Action.
4. NOR = Notice of Responsibility.
5. PCE = Tetrachloroethylene (also know as perchloroethylene).
6. RCGW-2= Massachusetts Contingency Plan Reportable Concentration in Groundwater Standard.
7. RCS-1 = Massachusetts Contingency Plan Reportable Concentration Soil Standard.
8. RTN = Release Tracking Number.
9. SHA = Sanborn Head & Associates.
10. SRM = Substantial Release Migration.
11. TCE = Trichloroethylene.
12. VOCs = Volatile organic compounds.

Table 3-4

Summary of Aboveground and Underground Storage Tanks (50 Tufts Street Property)

50 Tufts Street
Somerville, Massachusetts

Tank Type	Tank Capacity (gallons)	Product	Date Installed	Date Removed	Reference
UST	5,000	Diesel Fuel	1979	8/19/1987	(a)
AST	14,000	Tetrachloroethylene (PCE)	Unknown	Unknown	(a), (b)
AST	5,000	Assorted Dry Cleaning Solvents	Unknown	Unknown	(a)
AST	5,000	Assorted Dry Cleaning Solvents	Unknown	Unknown	(a)
AST	10,000	Unknown	Unknown	11/30/1990	(a)
AST	1,500	Unknown	Unknown	11/30/1990	(a)
AST	2,500	Unknown	Unknown	11/30/1990	(a)
AST	2,500	Unknown	Unknown	11/30/1990	(a)
AST	1,300	Unknown	Unknown	Unknown	(b)
AST	1,300	Unknown	Unknown	Unknown	(b)
AST	< 300	Unknown	Unknown	Unknown	(b)
AST	< 300	Unknown	Unknown	Unknown	(b)

General Notes:

1. Tank capacities shown were either reported on documents obtained from the City of Somerville Fire Department or are based on visual estimates made during the GEI property visit on November 18, 2004.
2. AST = Aboveground storage tank.
3. UST = Underground storage tank.
4. The 14,000 PCE AST was identified on Fire Department records as either a 14,000 or 15,000-gallon AST. Fire Department personnel clarified via telephone that the AST was a 14,000-gallon AST.

References:

(a) City of Somerville Fire Department records.
(b) Observations made during Property visit by GEI personnel on November 18, 2004.

Table 3-5
Summary of Material Inventory Observed on November 18, 2004 (50 Tufts Street Property)

50 Tufts Street
Somerville, Massachusetts

Material Type	Estimated Container Size	Approximate Quantity of Containers
Sodium Hypochlorite/Bleach	5 gallons	7 pails
Sodium Hypochlorite	30-55 gallons	8 drums
Unspecified Oxidizers	Lab packs[(a)]	Unspecified[(b)]
Unspecified Acids and Alkaline (Liquids)	5 gallons	28 pails
Unspecified Acids and Alkaline (Liquids)	30 gallons	32 drums
Unspecified Acids and Alkaline (Liquids)	55 gallons	4 drums
Unspecified Acids and Alkaline (Liquids)	Lab packs[(a)]	Unspecified[(c)]
Sodium Hydroxide	55 gallons	5 drums
Non-hazardous Solids (starch, road salt)	55 gallons	3 drums
Petroleum Oil	55 gallons	3 drums
Perchloroethylene	55 gallons	7 drums
Unmarked	55 gallons	6 drums
Empty	5 gallons	240 pails
Empty	30 gallons	303 drums
Empty	20 gallons	51 drums
Empty	55 gallons	22 drums
Empty	55 gallons	6 drums
Unspecified	< 300 gallons	2 ASTs
Unspecified	20,000 gallons	1 AST
Unspecified	1300 gallons	2 ASTs

General Notes:

1. Container sizes and quantities are estimated and are based on GEI's observations made on November 18, 2004.
2. AST = Aboveground storage tank.

Footnotes:

(a) The sizes of the lab packs were not specified.
(b) Based on visual observations, the quantity of oxidizer lab packs was estimated to fill a single 55-gallon drum.
(c) Based on visual observations, the quantity of oxidizer lab packs was estimated to fill four 55-gallon drums.

Table 3-6
RCRA-SQGs within the Disposal Site
50 Tufts Street
Somerville, Massachusetts

EPA ID	RCRA-SQG ID	EDR Reference Number	Site Address	Regulatory Status	RCRA-SQG Owner
MAD00844969	100215394	D16 (a)	50 Tufts Street	1 Violation: "Generator-All Requirements (Oversight)" on 11/2/1984. Compliance achieved 7/3/1985	Superior Products and Equipment
MAD991289448	1000690944	K54 (a)	91 Washington Street	No Violations	Joe Bera Trucking Co. facility
MAD001027150	1000369481	K62 (a)	85 Washington Street	No Violations	Emerson Sack Warner Corp.
MAD985294107	1004718017	S84 (a)	75 Washington Street	No Violations	Alex Auto body (Car Maintenance Garage)
MAR000015032	1001960882	28	30 Cobble Hill Road	No Violations	Mass Envelope Plus

General Notes:
1. Information from Environmental Data Report (EDR), April 25, 2008; and DEP Sites Database, accessed May 1, 2008.
2. ID = Identification.
3. EPA = Environmental Protection Agency.
4. RCRA = Resource Conservation and Recovery Act.
5. SQG = Small Quantity Generator.

Footnotes:

(a) Included in EDR, January 25, 2007; and DEP Sites Database, accessed January 29, 2008, but not in EDR from April 25, 2008.

Table 4-1
Soil Boring and Monitoring Well Summary
50 Tufts Street
Somerville, Massachusetts

Location Name	Location Type	Installed By	Completion Date	Method	Well Diameter (inches)	Well Screen Interval (ft bgs)	Ground Surface Elevation (ft NAVD)	Screened Strata	Total Depth (ft)	Comment
GEO-1	monitoring well	GeoInsight	8/12/04	HSA	2	5 - 20	26.1	sand	20	
GEO-2	monitoring well	GeoInsight	8/12/04	HSA	2	5 - 20	27.1	sand	20	
GEO-3	monitoring well	GeoInsight	8/13/04	HSA	2	5 - 20	25.9	sand	20	
GEO-4	monitoring well	GeoInsight	8/13/04	HSA	2	4 - 19	22.1	sand	19	
GEO-5	monitoring well	GeoInsight	8/16/04	HSA	2	5 - 20	20.5	sand, silt and clay	20	
GEO-6	monitoring well	GeoInsight	8/13/04	HSA	2	5 - 20	18.1	sand	20	
GEO-7	soil boring only	GeoInsight	8/16/04	HSA	NA	NA	unknown	NA	13	
MW-1	monitoring well	unknown	unknown	unknown	1	unknown	26.2	unknown	unknown	Boring/well log not provided
MW-2	monitoring well	unknown	unknown	unknown	1	unknown	25.5	unknown	unknown	Boring/well log not provided
MW-3	monitoring well	unknown	unknown	unknown	1	unknown	25.4	unknown	unknown	Boring/well log not provided
SH-1	monitoring well	SHA	6/21/02	Geoprobe	1	9 - 14	29.7	sand	14	
SH-2	monitoring well	SHA	6/21/02	Geoprobe	1	7 - 14	29.7	sand	14	
SH-3	monitoring well	SHA	6/21/02	Geoprobe	1	8 - 13	29.8	sand	13	
SH-4	monitoring well	SHA	6/21/02	Geoprobe	1	11 - 16	29.8	sand	16	
SH-5	monitoring well	SHA	6/21/02	Geoprobe	1	8 - 13	29.7	sand and gravel	13	
SH-B1	soil boring only	SHA	6/21/02	Geoprobe	NA	NA	unknown	NA	15	
SH-B2	soil boring only	SHA	6/21/02	Geoprobe	NA	NA	unknown	NA	12	
SH-MW1	monitoring well	SHA	7/3/02	HSA/Rock core	2	10 - 30	24.5	silt, clay and bedrock	30	
SH-MW2	monitoring well	SHA	7/3/02	HSA	2	10 - 25	24.7	silt and clay	25	
SH-MW3	monitoring well	SHA	7/3/02	HSA	2	10 - 24	22.9	silt and clay	24	
Soil Boring-1	soil boring only	GeoInsight	8/12/04	HSA	NA	NA	unknown	NA	11	Possibly SB1 on Fig. 4-1
Soil Boring-2	soil boring only	GeoInsight	8/12/04	HSA	NA	NA	unknown	NA	10	Possibly SB2 on Fig. 4-1
MW101	monitoring well	GEI	5/1/06	HSA	2	9 - 19	27.0	sand and gravel	19	
MW102	monitoring well	GEI	5/1/06	HSA	2	6 - 16	19.2	sand, gravel and clay	16	
MW103	monitoring well	GEI	5/1/06	HSA	2	6 - 16	19.8	sand, gravel and silt	16	
MW104	monitoring well	GEI	5/24/06	Geoprobe	1	5 - 15	17.9	sand, gravel and silt	15	
MW105	monitoring well	GEI	5/2/06	HSA	2	19 - 29	39.6	sand, gravel and silt	29	
MW106	monitoring well	GEI	1/5/07	Geoprobe	2	9 - 19	26.9	sand, gravel, silt	21	
MW107	monitoring well	GEI	1/5/07	Geoprobe	2	2 - 12	15.1	silt	21	
MW108	monitoring well	GEI	1/5/07	Geoprobe	2	2 - 12	13.1	sand, gravel, and silt	12	

General Notes:

1. Information on locations installed by GeoInsight and SHA based on boring and monitoring well logs prepared by GeoInsight and SHA, except for well diameters, which were measured in the field.
2. ft = feet.
3. bgs = below ground surface.
4. NAVD = North American Datum of 1988.
5. SHA = Sanborn Head & Associates, Inc.
6. NA = Not Applicable.
7. Monitoring wells MW1 through MW2 were installed prior to SHAs investigation, which was conducted in 2002.
8. HSA = Hollow-stem auger.
9. DEP = Massachusetts Department of Environmental Protection.

Table 4-1
Soil Boring and Monitoring Well Summary
50 Tufts Street
Somerville, Massachusetts

Location Name	Location Type	Installed By	Completion Date	Method	Well Diameter (inches)	Well Screen Interval (ft bgs)	Ground Surface Elevation (ft NAVD)	Screened Strata	Total Depth (ft)	Comment
MW109	monitoring well	GEI	1/5/07	Geoprobe	2	3 - 13	24.7	sand and gravel	15.25	
MW110	monitoring well	GEI	1/8/07	Geoprobe	2	3 - 13	16.0	silty sand, silt	16	
MW111	monitoring well	GEI	1/8/07	Geoprobe	2	4 - 14	19.4	sand, gravel, and silt	16	
MW112	monitoring well	GEI	1/8/07	Geoprobe	2	3 - 10	18.6	silty sand, silt	10	Dry
MW112-A	monitoring well	GEI	3/10/07	HSA	2	4 - 19	18.1	sand, gravel, and silt	19	
MW113	monitoring well	GEI	2/15/07	Geoprobe	2	10 - 20	26.6	sand, gravel, and silt	20	
MW114	monitoring well	GEI	2/15/07	Geoprobe	2	7 - 17	29.8	sand, gravel, and silt	17	
MW115	monitoring well	GEI	2/21/07	HSA	2	10 - 25	27.3	sand, gravel, and silt	25	
MW116	monitoring well	GEI	3/10/07	HSA/Air Rotary	2	5 - 15	13.0	bedrock	15	
MW117S	monitoring well	GEI	6/20/07	HSA	2	5 - 20	22.2	fill, silt	20	
MW117T	monitoring well	GEI	6/22/07	Drive&Wash/Rock Core	2	35 - 45	22.2	till	45	
MW117D	monitoring well	GEI	6/20/07	HSA/Drive & Wash	2	60 - 70	22.1	bedrock	70	
MW118S	monitoring well	GEI	7/2/07	HSA	2	3 - 14	15.7	fill/silt	14	
MW118T	monitoring well	GEI	6/28/07	HSA/Drive & Wash	2	39.5 - 49.5	15.7	till	49.5	
MW118D	monitoring well	GEI	7/2/07	Drive&Wash/Rock Core	2	70 - 80	15.6	bedrock	80	
MW119S	monitoring well	GEI	8/8/07	HSA	2	5 - 20	12.1	fill/silt	20	
MW119T	monitoring well	GEI	8/8/07	Drive & Wash	2	42 - 47	12.1	till	48.5	
MW120S	monitoring well	GEI	8/8/07	HSA	2	5 - 20	12.9	fill, silt	20	
MW120D	monitoring well	GEI	8/9/07	Drive & Wash	2	28 - 38	13.1	bedrock	38	
MW121S	monitoring well	GEI	10/10/07	HSA	2	5 - 20	13.0	fill	20	
MW121D	monitoring well	GEI	10/12/07	Drive & Wash/Rock Core	2	32.1 - 47.1	13.1	bedrock	48	
MW122	monitoring well	GEI	1/24/08	Drive & Wash	2	4 - 16	16.4	silt	16	
MW201	monitoring well	GEI	7/11/07	Geoprobe	2	11 - 21	27.9	sand and gravel	21	
MW202	monitoring well	GEI	7/10/07	Geoprobe	2	10.5 - 20.5	28.1	fill, sand and gravel	20.5	
MW203	monitoring well	GEI	7/11/07	Geoprobe	2	6 - 18	22.1	till	18	
MW-CS-1	monitoring well	unknown	unknown	unknown	2	unknown	41.4	unknown	unknown	
MW DEP A	pizeometer	DEP	5/30/07	Hand Tools	1	NA	unknown	unknown	unknown	
MW DEP B	pizeometer	DEP	5/30/07	Hand Tools	1	NA	unknown	unknown	unknown	
MW DEP C	pizeometer	DEP	5/30/07	Hand Tools	1	NA	unknown	unknown	unknown	

General Notes:

1. Information on locations installed by GeoInsight and SHA based on boring and monitoring well logs prepared by GeoInsight and SHA, except for well diameters, which were measured in the field.
2. ft = feet.
3. bgs = below ground surface.
4. NAVD = North American Vertical Datum of 1988.
5. SHA = Sanborn Head & Associates, Inc.
6. NA = Not Applicable.
7. Monitoring wells MW1 through MW2 were installed prior to SHAs investigation, which was conducted in 2002.
8. HSA = Hollow-stem auger.
9. DEP = Massachusetts Department of Environmental Protection.

Table 4-2

Summary of Drilling and Monitoring Well Installation Activities

50 Tufts Street

Somerville, Massachusetts

Sampling Event and Date	Locations	Laboratory Analytical Sampling (Y/N?)	Laboratory Analytical Detail	QA/QC
Vacuum Excavation 4/28/2006	MW101, MW102, MW103, MW105	Yes	Submitted soil samples for VOCs and % solids testing.	NA
Monitoring Well Installation 5/1/06 - 5/2/06	MW101, MW102, MW103, MW105	Yes	Submitted soil samples for VOCs and % solids testing.	NA
Monitoring Well Installation 5/17/2006	MW104	Yes	Submitted soil samples for VOCs and % solids testing.	NA
Monitoring Well Development 5/16/2006	GEO-3, GEO-4, GEO-5, GEO-6, MW101, MW102, MW103, MW105	No	NA	NA
Vacuum Excavation 1/3/2007- 1/4/2007	MW106, MW107, MW108, MW109, MW110, MW111, MW112	Yes	Submitted soil samples for VOCs and % solids testing.	NA
Monitoring Well Installation 1/5/2007, 1/8/2007	MW106, MW107, MW108, MW109, MW110, MW111, MW112	Yes	Submitted soil samples for VOCs and % solids testing.	Collected Field Duplicate B110(FD) (B110(7'-9')) on 1/8/2007
Vacuum Excavation 2/13/2007	MW113, MW114, MW115	Yes	Submitted soil samples for VOCs and % solids testing.	NA
Monitoring Well Installation 2/15/07, 2/21/07	MW113, MW114, MW115	Yes	Submitted soil samples for VOCs and % solids testing.	Collected Field Duplicate MW100 (MW113 (11'-13')) on 2/15/2007
Monitoring Well Development 2/16/2007	MW113, MW114, MW115	No	NA	NA
Monitoring Well Abandonment and Re-installation 2/21/2007	MW115	Yes	Submitted soil samples for VOCs and % solids testing.	NA

General Notes:

1. NA = Not Applicable.
2. QA/QC = Quality Assurance/Quality Check.
3. VOC = Volatile Organic Compound.
4. TOC = Total Organic Carbon.

Table 4-2
Summary of Drilling and Monitoring Well Installation Activities
50 Tufts Street
Somerville, Massachusetts

Sampling Event and Date	Locations	Laboratory Analytical Sampling (Y/N?)	Laboratory Analytical Detail	QA/QC
Vacuum Excavation and Monitoring Well Installation 3/10/2007	MW112A, MW116	Yes	Submitted soil samples for VOCs and % solids testing.	NA
Monitoring Well Development 3/16/2007	MW112A, MW115, MW116	No	NA	NA
Vacuum Excavation 6/5/2007	MW117S, MW117T, and MW117D	Yes	Submitted soil sample for VOCs, % solids, and TOC testing.	NA
Monitoring Well Installation 6/18/2007 - 6/21/2007	MW117S, MW117D	Yes	Submitted soil samples for VOCs, % solids, grain size, and TOC testing. Submitted rock sample for bulk density, matrix porosity, TOC testing.	Collected sample of drilling water for VOCs testing (6/18/2007)
Monitoring Well Installation 6/22/2007	MW117T	No	NA	NA
Monitoring Well Installation 6/25/2007-7/2/2007	MW118D	Yes	Submitted soil samples for VOCs, % solids, grain size, and TOC testing. Submitted rock sample for bulk density, matrix porosity, TOC testing.	Collected water sample from irrigation well for VOCs testing (6/25/2007)
Monitoring Well Development 7/3/2007	MW117S, MW117T, MW117D, MW118S, MW118T, MW118D	No	NA	NA
Monitoring Well Installation 7/10/2007-7/11/2007	MW201, MW202, MW203	Yes	Submitted soil samples for VOCs testing.	NA
Monitoring Well Installation 8/7/2007 - 8/9/2007	MW119S, 119T MW120S, and MW120D	Yes	Submitted soil samples for VOCs and % solids testing.	NA

General Notes:
1. NA = Not Applicable.
2. QA/QC = Quality Assurance/Quality Check.
3. VOC = Volatile Organic Compound.
4. TOC = Total Organic Carbon.

Table 4-2
Summary of Drilling and Monitoring Well Installation Activities
50 Tufts Street
Somerville, Massachusetts

Sampling Event and Date	Locations	Laboratory Analytical Sampling (Y/N?)	Laboratory Analytical Detail	QA/QC
Monitoring Well Development 8/9/2007 - 8/10/2007	MW119S, MW119T, MW120S, and MW120T	No	NA	NA
Monitoring Well Abandonment 8/9/2007	SH-MW-1	No	NA	NA
Vacuum Excavation 10/5/2007	MW121S, MW121D	Yes	Submitted soil sample for VOCs and % solids testing.	NA
Vacuum Excavation 10/8/2007	MW121S, MW121D	Yes	Submitted soil samples for VOCs and % solids testing.	NA
Monitoring Well Installation 10/9/2007 - 10/12/2007	MW121D	Yes	Submitted soil samples for VOCs, % solids, grain size, and TOC testing. Submitted rock sample for bulk density, matrix porosity, and TOC testing.	NA
Monitoring Well Installation 10/10/2007	MW121S	No	NA	NA
Monitoring Well Development 10/15/2007	MW121S, MW121D	No	NA	NA
Vacuum Excavation 1/23/2008	MW122	Yes	Submitted soil samples for VOCs, % solids, and TOC testing.	NA
Monitoring Well Installation 1/24/2008	MW122	Yes	Submitted soil samples for VOCs, % solids, and TOC testing.	NA
Monitoring Well Development 1/24/2008	MW122	No	NA	NA

General Notes:
1. NA = Not Applicable.
2. QA/QC = Quality Assurance/Quality Check.
3. VOC = Volatile Organic Compound.
4. TOC = Total Organic Carbon.

Table 4-3
Summary of Hydraulic Conductivity Testing
50 Tufts Street
Somerville, Massachusetts

Date	Tested Locations	Test Conducted
4/9/2007	MW109, GEO-2, SH-MW3, MW111	Rising head
4/10/2007	MW112A, MW116	Rising head
6/21/2007	MW117D	Rising and falling head slug
7/2/2007	MW118D	Rising and falling head slug
12/18/2007	GEO-1, GEO-2, SH-MW3	Rising head
12/19/2007	MW119S	Rising head
	MW117T, MW119T	Rising and falling head
12/20/2007	MW117S, MW118S, MW201, MW202	Rising head
	MW118T	Rising and falling head
12/26/2007	MW101, MW102, MW109, MW112A, MW121S, GEO-6	Rising head
12/27/2007	GEO-3, MW111, MW116	Rising head
	MW120D	Rising and falling head
12/29/2007	GEO-5	Rising head
2/1/2008	MW122	Rising head

Table 4-4
Summary of Shallow Soil Sampling Activities
50 Tufts Street
Somerville, Massachusetts

Date	Sampling Locations	QA/QC
2/1/2008	23 Tufts Street	Field duplicate 900Tuft (23 Tufts-BS)
2/7/2008	4 Morton Street	No
2/7/2008	13 Morton Street	No
2/19/2008	10 Alston Street	No
2/19/2008	163 Glen Street	No
2/19/2008	35-37 Knowlton Street	No
2/19/2008	27 Tufts Street	No
2/21/2008	74 Franklin Street	No
2/21/2008	29 Knowlton Street	No
2/26/2008	50 Tufts Street (5 samples)	No
3/6/2008	82 Franklin Street	No
3/11/2008	19 Knowlton Street	No

General Notes:
1. All samples were submitted to Accutest for chemical analysis of VOCs and percent solids.
2. Soil samples for VOC analysis were preserved in the field with methanol.
3. QA/QC = Quality Assurance/Quality Check
4. VOC = Volatile Organic Compound

Table 4-5
Summary of Subsurface Soil Vapor Sampling
50 Tufts Street
Somerville, Massachusetts

Sampling Event	Date	Sampled Locations
Quarterly Soil Vapor Sampling	1/17/07	MW107, MW108, MW109, MW110, MW111, and MW112A
	1/18/07	MW106 (Field Duplicate)
	2/19/07	MW113, MW114 and MW115
Soil Vapor Sampling	3/20/2007	MW112A, MW115 and MW116
Quarterly Soil Vapor Sampling	4/10/2007	MW106, MW107, MW108, MW109, MW113, MW114 and MW115 [a]
	4/11/2007	MW111, MW112A and MW116
	4/11/2007	MW111, MW112A and MW116
Quarterly Soil Vapor Sampling	7/17/2007	MW106, MW107, MW108, MW111, MW112A, MW114, MW115R, MW116, MW117S, MW118S and MW202
Soil Vapor Sampling	8/28/2007	MW119S and MW120S
	8/30/2007	MW118S
Quarterly Soil Vapor Sampling	10/9/2007	MW106, MW107, MW108, MW109, MW111, MW112A, MW114, MW116, MW117S, and MW118S [a]
	10/16/2007	MW115, MW119S, and MW120S
	10/19/2007	MW201 and MW202
	10/22/2007	MW121S
Quarterly Soil Vapor Sampling	1/7/2008	MW106, MW107, MW108, MW109, MW111, MW112A, MW114 and MW115R [a]
	1/8/2008	MW113, MW117S, MW118S, MW121S, MW201, and MW202 [b]
	1/30/2008	MW116 and MW122

General Notes:
1. Samples collected over 1-hour period in a 6-Liter Summa canister.
2. Samples submitted for Volatile Organic Compound testing.

Footnotes:

(a) Did not collect soil gas sample from MW110 because the road box was filled with water.

(b) Did not collect soil gas sample from MW119S and MW120S because the groundwater level was above the soil vapor screen.

Table 4-6
Summary of Groundwater Sampling Activities
50 Tufts Street
Somerville, Massachusetts

Sampling Event and Date	Sampled Locations	QA/QC Samples
Quarterly Groundwater Sampling		
5/23/2006	SH-MW1, SH-MW2, SH-MW3, GEO-1, GEO-2, MW-1, MW-3, and MW104	NA
5/24/2006	GEO-3, GEO-4, GEO-5, GEO-6, MW101, MW102 MW103, and MW105	Field Duplicate of GEO-3
5/25/2006	SH-4	NA
Groundwater Sampling		
8/7/2006	MW103	NA
Quarterly Groundwater Sampling		
10/4/2006	SH-MW1, SH-MW2, SH-MW3, GEO-3 GEO-4, GEO-5 and GEO-6	Field Duplicate MW900 (GEO-3)
10/5/2006	GEO-1, GEO-2, MW101, MW102, MW103, MW104 and MW105	NA
Quarterly Groundwater Sampling		
1/16/2007	SH-MW1, SH-MW2, GEO-3, GEO-4, GEO-5, GEO-6, MW102, MW103, MW104, and MW105	Field Duplicate MW900 (GEO-6)
1/17/2007	SH-MW3, MW-1, MW-3, GEO-1 and GEO-2	Field Duplicate MW800 (GEO-1)
1/18/2007	MW103, MW106, MW107, MW108, MW109, MW110 and MW111	NA
Groundwater Sampling		
2/20/2007	MW113 and MW114	NA
3/23/2007	MW112A, MW115R AND MW116	NA

General Notes:
1. NA = not applicable.
2. QA/QC = quality assurance/quality check.
3. MS/MSD = matrix spike/matrix spike duplicate.
4. VOC = volatile organic compound.
5. All groundwater samples submitted for VOCs testing. January 2007 samples also submitted for natural attenuation parameter testing.

Table 4-6
Summary of Groundwater Sampling Activities
50 Tufts Street
Somerville, Massachusetts

Sampling Event and Date	Sampled Locations	QA/QC Samples
Quarterly Groundwater Sampling		
4/12/07	SHMW1, SHMW3, GEO1, GEO2 and MW113	NA
4/13/07	GEO3, MW101, MW102, MW103, MW104, MW106, MW107, MW114 and MW115R	Field Duplicate MW900 (MW101)
4/16/07	SHMW2, GEO4, GEO5, GEO6, MW105, MW108, MW109, MW111, MW112A and MW116	Field Duplicate MW901 (GEO6)
5/23/07	MWCS1	NA
Quarterly Groundwater Sampling		
7/18/2007	MW102, MW107, MW108, MW11, MW112A, MW113, MW114, MW115R, M2116 and MW117S	Sample from MW102 was used for MS/MSD Field Duplicate MW900 (MW113) Field Duplicate MW901 (MW116)
7/19/2007	SHMW2, MW104, MW105, MW106, MW117T, MW117D, MW201, MW202 and MW203	NA
7/20/2007	MW118S, MW118T and MW118D	NA
Groundwater Sampling		
8/22/07	MW119S, MW119T, MW120S and MW120D	NA
8/30/07	MW118S, MW118T and MW118D	NA

General Notes:
1. NA = not applicable.
2. QA/QC = quality assurance/quality check.
3. MS/MSD = matrix spike/matrix spike duplicate.
4. VOC = volatile organic compound.
5. All groundwater samples submitted for VOCs testing. January 2007 samples also submitted for natural attenuation parameter testing.

Table 4-6
Summary of Groundwater Sampling Activities
50 Tufts Street
Somerville, Massachusetts

Sampling Event and Date	Sampled Locations	QA/QC Samples
Quarterly Groundwater Sampling		
10/10/2007	MW102, MW105, MW106, MW107, MW108, MW111, MW112A, MW113, MW114, MW115	Sample from MW102 was used for MS/MSD Field Duplicate MW900 (MW113)
10/11/2007	MW117T, MW117D, MW118S, MW118T, MW118D	NA
10/12/2007	MW116, MW119S, MW119T, MW120S, MW120D, MW201, MW202	Field Duplicate MW901 (MW116)
10/15/2007	MW104, MW117S	NA
10/22/2007	MW121S, MW121D	NA
Quarterly Groundwater Sampling		
1/9/2008	MW105, MW115	NA
1/10/2008	MW102, MW106, MW107, MW108, MW111, MW112A	Sample from MW102 was used for MS/MSD
1/11/2008	MW104, MW113, MW114, MW116, MW117S, MW118S, MW201, MW202	Field Duplicate MW900 (MW113) Field Duplicate MW901 (MW116)
1/15/2008	MW117T, MW117D, MW118T, MW119S, MW120S, MW121S, MW121D	NA
1/16/2008	MW118D, MW119T	NA
1/17/2008	MW120D	NA
Groundwater Sampling		
1/30/2008	MW122	NA

General Notes:
1. NA = not applicable.
2. QA/QC = quality assurance/quality check.
3. MS/MSD = matrix spike/matrix spike duplicate.
4. VOC = volatile organic compound.
5. All groundwater samples submitted for VOCs testing. January 2007 samples also submitted for natural attenuation parameter testing.

Table 4-7
Summary of Soil Physical Characteristics
50 Tufts Street
Somerville, Massachusetts

Sample Location	Sample ID	Sample Depth (feet)	Stratigraphy	Dry Bulk Density (g/cc)	Median Grain-Size (mm)	Mean Grain-Size Description	Particle Size Distribution (weight %)				
							Gravel	Sand			Silt and Clay
								Coarse	Medium	Fine	
MW117D	B117D-Fill	3-16	Fill	1.84	0.395	Medium Sand	11.14	5.62	31.3	35.95	15.99
	B117D-Silt	20-24	Native Silt	1.52	0.005	Silt	0.00	0.00	0.00	1.73	98.27
	B117D-Till	28-32	Glacial Till	2.25	0.015	Silt	0.00	0.00	0.00	24.78	75.22
MW118D	B118D-Fill	0-2	Fill	1.59	0.488	Medium Sand	20.06	13.14	46.01	14.69	6.09
	B118D-lower Silt	14-16	Native Silt	1.43	0.006	Silt	0.00	0.00	0.00	0.77	99.23
	B118D-upper Silt	34-36	Native Silt	1.63	0.004	Silt	0.00	0.00	0.00	0.09	99.91
	B118D-Till	44-46	Glacial Till	2.18	5.796	Gravel	52.98	8.64	29.45	6.09	2.85
MW121D	MW121-Upper Silt	9-11	Native Silt	1.47	0.004	Silt	0.00	0.00	0.00	0.00	100.00
	MW121-Lower Silt	21-23	Native Silt	1.55	0.005	Silt	0.00	0.00	0.00	0.00	100.00
MW122	B122-Upper Silt	8-10	Native Silt	1.60	0.005	Silt	0.00	0.00	0.00	0.00	100.00
	B122- Lower Silt	0-3	Native Silt	1.82	0.004	Silt	0.00	0.00	0.00	0.00	100.00
	B122-Fill	14-16	Fill	1.41	0.322	Fine Sand	0.00	3.65	36.05	56.08	4.22

General Notes:

1. All analyses were performed by PTS Laboratories of Santa Fe Springs, California.
2. g/cc = grams per cubic centimeter.
3. mm = millimeters
4. weight % = percent by weight.

Table 4-8
Summary of Rock Core Physical Characteristics
50 Tufts Street
Somerville, Massachusetts

Sample Location	Sample ID	Sample Depth (feet)	Bulk Density (g/cc)	Grain Density (g/cc)	Total Porosity (% Vb)	Total Organic Carbon (mg/kg)
MW118D	B118D-C1	55-60	2.61	2.64	1.2	780
	B118D-C6	75-80	2.74	2.79	1.7	3550
MW117D	B117D-C1	50-55	2.59	2.76	6.1	430
MW121D	MW121D-C1	32-36	2.64	2.75	4.2	2000

General Notes:

1. All analyses were performed by PTS Laboratories.
2. g/cc = grams per cubic centimeter.
3. % Vb = percent by bulk volume.
4. mg/kg = milligrams per kilogram.
5. Bedrock Type = Cambridge Argillite.

Table 4-9
Site-Specific Chlorinated VOCs Analyte List
50 Tufts Street
Somerville, Massachusetts

Carbon tetrachloride
Chloroethane
cis-1,2-Dichloroethylene
Dichloroethane,1,1-
Dichloroethane,1,2-
Dichloroethylene,1,1-
Tetrachloroethane,1,1,2,2-
Tetrachloroethylene (PCE)
trans-1,2-Dichloroethylene
Trichloroethane,1,1,1- (TCA)
Trichloroethane,1,1,2-
Trichloroethylene (TCE)
Vinyl chloride

Table 4-10
Monthly Groundwater Elevations
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	5/15/06		5/16/06		5/23/06		5/31/06		7/24/06		8/1/06		8/3/06		8/16/06		9/29/06	
Location Name	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.9	9.69	16.21	9.53	16.37	10.9	15	11.39	14.51	--	--	--	--	--	--	11.9	14	--	--
MW-2	unknown	25.38	8.99	16.39	10.36	15.02	Dry	Dry	Dry	Dry	--	--	--	--	--	--	Dry	Dry	--	--
MW-3	unknown	25.31	8.88	16.43	9.32	15.99	11.16	14.15	12.71	12.6	--	--	--	--	--	--	13.73	11.58	--	--
MW-101	9-19	26.75	--	--	10.56	16.19	11.53	15.22	12.1	14.65	12.33	14.42	12.51	14.24	13.47	13.28	12.78	13.97	12.85	13.9
MW-102	6-16	18.89	--	--	6.62	12.27	6.86	12.03	7.44	11.45	7.93	10.96	8.16	10.73	9.11	9.78	8.51	10.38	8.68	10.21
MW-103	6-16	19.47	--	--	9.5	9.97	10.37	9.1	10.74	8.73	11.15	8.32	11.31	8.16	12.24	7.23	11.72	7.75	11.98	7.49
MW-104	5-15	17.67	--	--	--	--	7.93	9.74	8.89	8.78	9.06	8.61	9.39	8.28	10.29	7.38	9.87	7.8	9.95	7.72
MW-105	19-29	38.84	--	--	19.49	19.35	20.21	18.63	20.7	18.14	21.18	17.66	21.43	17.41	22.41	16.43	21.91	16.93	22.27	16.57
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-107	2 - 12	14.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-108	2 - 12	12.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-109	3 - 13	24.12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-111	4 - 14	18.95	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-112a	4-19	17.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-113	10-20	26.16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-114	7-17	29.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-115	10-25	27.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-116	5-15	13.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117S	5 - 20	21.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117T	35 - 45	21.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117D	60 - 70	21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118S	3 - 14	15.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118T	39.5 - 49.5	15.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118D	70 - 80	15.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119S	5 - 20	11.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119T	42 - 47	11.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120S	5 - 20	12.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120D	28 - 38	12.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121S	5 - 20	12.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121D	32 - 47	12.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-1	5 - 20	25.88	9.69	16.19	9.9	15.98	10.92	14.96	11.36	14.52	--	--	--	--	--	--	11.82	14.06	--	--
GEO-2	5 - 20	26.54	9.76	16.78	--	--	11.38	15.16	11.91	14.63	--	--	--	--	--	--	12.51	14.03	--	--
GEO-3	5 - 20	25.64	10.43	15.21	9.59	16.05	9.87	15.77	10.67	14.97	11.67	13.97	11.85	13.79	12.84	12.8	12.25	13.39	12.37	2.84
GEO-4	4 - 19	21.69	--	--	7.79	13.9	9.85	11.84	10.78	10.91	11.25	10.44	11.45	10.24	12.43	9.26	11.9	9.79	12.09	9.6
GEO-5	5 - 20	20.14	--	--	6.78	13.36	9.08	11.06	9.96	10.18	10.29	9.85	10.56	9.58	11.51	8.63	10.99	9.15	11.21	8.93
GEO-6	5 - 20	17.62	--	--	5.66	11.96	7.39	10.23	8.23	9.39	8.43	9.19	8.73	8.89	9.64	7.98	9.25	8.37	9.41	8.21
SH-1	9 - 14	29.55	10.15	19.4	11.4	18.15	Dry	Dry	Dry	Dry	--	--	--	--	--	--	Dry	Dry	--	--
SH-2	7 - 14	29.64	5.71	23.93	7.86	21.78	12.07	17.57	12.22	17.42	--	--	--	--	--	--	11.98	17.66	--	--
SH-3	8 - 13	29.66	7.54	22.12	8.56	21.1	12.73	16.93	12.96	16.7	--	--	--	--	--	--	Dry	Dry	--	--
SH-4	11 - 16	29.63	13.53	16.1	13.48	16.15	14.48	15.15	15.02	14.61	--	--	--	--	--	--	15.09	14.54	--	--
SH-5	8 - 13	29.63	Dry	Dry	--	--	12.99	16.64	13.03	16.6	--	--	--	--	--	--	Dry	Dry	--	--
SH-MW1	10 - 30	24.02	6.72	17.3	--	--	11.44	12.58	12.18	11.84	--	--	--	--	--	--	13.09	10.93	--	--
SH-MW2	10 - 25	24.27	9.33	14.94	--	--	12.05	12.22	12.69	11.58	--	--	--	--	--	--	13.38	10.89	--	--
SH-MW3	10 - 24	22.31	7.8	14.51	--	--	10.26	12.05	11.03	11.28	--	--	--	--	--	--	13	9.31	--	--
MW201	11-21	27.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW202	10.5-20.5	27.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203	6-18	21.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:

1. ft = feet.
2. bgs = below ground surface.
3. NAVD = North American Vertical Datum of 1988.
4. The top of the PVC riser was used as the measuring point for depth to groundwater.
5. "--" = Well not yet installed, or not measured.

Table 4-10
Monthly Groundwater Elevations
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	10/4/06		11/14/06		12/12/06		1/16/07		2/12/07		3/14/07		4/12/07		5/29/07		6/26/07	
Location Name	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.9	11.88	14.02	--	--	--	--	11.6	14.3	--	--	--	--	11.39	14.51	11.41	14.49	11.8	14.1
MW-2	unknown	25.38	--	--	--	--	--	--	Destroyed	Destroyed	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	13.75	11.56	--	--	--	--	13.05	12.26	--	--	--	--	12.57	12.74	14.89	10.42	13.6	11.71
MW-101	9-19	26.75	12.76	13.99	12.25	14.5	12.57	14.18	12.4	14.35	12.81	13.94	12.34	14.41	12.11	14.64	12.17	14.58	12.62	14.13
MW-102	6-16	18.89	8.52	10.37	7.64	11.25	8.01	10.88	7.72	11.17	8.52	10.37	--	--	7.46	11.43	6.72	12.17	8.36	10.53
MW-103	6-16	19.47	11.92	7.55	11	8.47	11.21	8.26	10.88	8.59	11.74	7.73	11	8.47	10.66	8.81	10.81	8.66	11.47	8
MW-104	5-15	17.67	9.92	7.75	--	--	--	--	8.73	8.94	--	--	--	--	8.75	8.92	---	---	9.62	8.05
MW-105	19-29	38.84	22.18	16.66	21.16	17.68	21.76	17.08	21.46	17.38	22.03	16.81	21.56	17.28	20.88	17.96	20.86	17.98	21.55	17.29
MW-106	9 - 19	26.33	--	--	--	--	--	--	--	--	12.27	14.06	12.91	13.42	11.65	14.68	11.69	14.64	12.07	14.26
MW-107	2 - 12	14.63	--	--	--	--	--	--	--	--	4.54	10.09	4.5	10.13	4.49	10.14	4.46	10.17	4.48	10.15
MW-108	2 - 12	12.74	--	--	--	--	--	--	--	--	4.93	7.81	4.02	8.72	9.91	2.83	4.25	8.49	5.06	7.68
MW-109	3 - 13	24.12	--	--	--	--	--	--	--	--	12.07	12.05	11.27	12.85	10.27	13.85	10.73	13.39	11.76	12.36
MW-110	3 - 13	15.58	--	--	--	--	--	--	--	--	5.99	9.59	1.46	14.12	1.04	14.54	2.56	13.02	6.57	9.01
MW-111	4 - 14	18.95	--	--	--	--	--	--	--	--	11.38	7.57	10.62	8.33	10.65	8.3	10.68	8.27	11.11	7.84
MW-112	3 - 10	18.16	--	--	--	--	--	--	--	--	Dry	Dry	8.01	10.15	Dry	Dry	Dry	Dry	Dry	Dry
MW-112a	4-19	17.78	--	--	--	--	--	--	--	--	--	--	12.76	5.02	12.76	5.02	12.67	5.11	12.81	4.97
MW-113	10-20	26.16	--	--	--	--	--	--	--	--	--	--	11.66	14.5	11.44	14.72	11.51	14.65	11.99	14.17
MW-114	7-17	29.43	--	--	--	--	--	--	--	--	--	--	12.67	16.76	11.27	18.16	11.53	17.9	12.88	16.55
MW-115	10-25	27.15	--	--	--	--	--	--	--	--	--	--	17.19	9.96	16.21	10.94	16.63	10.52	17.42	9.73
MW-116	5-15	13.45	--	--	--	--	--	--	--	--	--	--	8.78	4.67	8.34	5.11	8.65	4.8	8.76	4.69
MW-117S	5 - 20	21.94	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117T	35 - 45	21.87	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-117D	60 - 70	21.78	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118S	3 - 14	15.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118T	39.5 - 49.5	15.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-118D	70 - 80	15.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119S	5 - 20	11.74	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-119T	42 - 47	11.67	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120S	5 - 20	12.54	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-120D	28 - 38	12.45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121S	5 - 20	12.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-121D	32 - 47	12.81	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
GEO-1	5 - 20	25.88	11.85	14.03	--	--	--	--	11.55	14.33	--	--	--	--	11.36	14.52	11.38	14.5	11.73	14.15
GEO-2	5 - 20	26.54	12.51	14.03	--	--	--	--	12.2	14.34	--	--	--	--	11.97	14.57	11.99	14.55	12.4	14.14
GEO-3	5 - 20	25.64	12.35	13.29	11.63	14.01	11.72	13.92	11.58	14.06	12.21	13.43	11.49	14.15	10.76	14.88	11.04	14.6	11.94	13.7
GEO-4	4 - 19	21.69	12.04	9.65	10.58	11.11	11.31	10.38	10.77	10.92	11.83	9.86	11.03	10.66	10.51	11.18	10.87	10.82	11.64	10.05
GEO-5	5 - 20	20.14	11.15	8.99	9.47	10.67	10.48	9.66	9.73	10.41	11.02	9.12	10.15	9.99	9.7	10.44	10.01	10.13	10.79	9.35
GEO-6	5 - 20	17.62	9.26	8.36	7.65	9.97	8.82	8.8	8.11	9.51	9.3	8.32	8.54	9.08	8.32	9.3	8.25	9.37	8.9	8.72
SH-1	9 - 14	29.55	Dry	Dry	--	--	--	--	Dry	Dry	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	12	17.64	--	--	--	--	Dry	Dry	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	Dry	Dry	--	--	--	--	Dry	Dry	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	15.1	14.53	--	--	--	--	Dry	Dry	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	Dry	Dry	--	--	--	--	Dry	Dry	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	13.17	10.85	--	--	--	--	12.21	11.81	--	--	--	--	12.01	12.01	12.26	11.76	---	---
SH-MW2	10 - 25	24.27	13.41	10.86	--	--	--	--	12.73	11.54	--	--	--	--	12.61	11.66	12.74	11.53	13.25	11.02
SH-MW3	10 - 24	22.31	12.04	10.27	--	--	--	--	11.04	11.27	--	--	--	--	10.81	11.5	--	--	11.72	10.59
MW201	11-21	27.51	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW202	10.5-20.5	27.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW203	6-18	21.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

General Notes:

1. ft = feet.
2. bgs = below ground surface.
3. NAVD = North American Vertical Datum of 1988.
4. The top of the PVC riser was used as the measuring point for depth to groundwater.
5. "--" = Well not yet installed, or not measured.

Table 4-10
Monthly Groundwater Elevations
50 Tufts Street
Somerville, Massachusetts

		Gauging Date:	7/16/07		8/22/07		9/27/07		10/23/07		11/30/07		1/9/08		2/26/08		3/18/08	
Location Name	Well Screen Interval (ft bgs)	Elevation of Measuring Point (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)	Depth to GW (ft)	Elevation of GW (ft NAVD)
MW-1	unknown	25.9	12.04	13.86	--	--	12.26	--	12.07	--	11.95	13.95	--	--	--	--	--	--
MW-2	unknown	25.38	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW-3	unknown	25.31	13.94	11.37	--	--	14.34	10.97	13.94	11.37	13.75	11.56	12.86	12.45	12.05	13.26	12.37	12.94
MW-101	9-19	26.75	12.85	13.9	13.03	13.72	13.17	13.58	12.91	13.84	13.82	12.93	12.11	14.64	--	--	11.85	14.9
MW-102	6-16	18.89	8.74	10.15	9.08	9.81	9.35	9.54	8.97	9.92	8.01	10.88	7.46	11.43	7.29	11.6	7.17	11.72
MW-103	6-16	19.47	11.92	7.55	12.3	7.17	12.63	6.84	--	--	12.18	7.29	10.74	8.73	10.51	8.96	10.5	8.97
MW-104	5-15	17.67	10.09	7.58	10.36	7.31	10.61	7.06	10.31	7.36	10.07	7.6	8.86	8.81	8.61	9.06	8.48	9.19
MW-105	19-29	38.84	22.13	16.71	22.79	16.05	23.18	15.66	22.96	15.88	22.74	16.1	21.39	17.45	20.79	18.05	20.41	18.43
MW-106	9 - 19	26.33	12.33	14	12.48	13.85	12.61	13.72	12.39	13.94	12.27	14.06	11.71	14.62	11.51	14.82	11.38	14.95
MW-107	2 - 12	14.63	4.52	10.11	4.75	9.88	4.51	10.12	4.47	10.16	4.44	10.19	4.35	10.28	--	--	4.46	10.17
MW-108	2 - 12	12.74	6.59	6.15	6.25	6.49	6.28	6.46	5.86	6.88	4.74	8	3.71	9.03	4.61	8.13	3.68	9.06
MW-109	3 - 13	24.12	12.24	11.88	Dry	Dry	Dry	Dry	Dry	Dry	12.78	11.34	10.64	13.48	10.06	14.06	10.02	14.1
MW-110	3 - 13	15.58	7.17	8.41	7.86	7.72	8.37	7.21	6.92	8.66	3.34	12.24	--	--	0.79	14.79	1.12	14.46
MW-111	4 - 14	18.95	11.54	7.41	11.96	6.99	12.34	6.61	11.99	6.96	12.27	6.68	10.51	8.44	10.5	8.45	10.54	8.41
MW-112	3 - 10	18.16	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	--	--
MW-112a	4-19	17.78	12.88	4.9	--	--	12.95	4.83	12.8	4.98	--	--	12.43	5.35	12.52	5.26	12.61	5.17
MW-113	10-20	26.16	12.22	13.94	12.43	13.73	12.58	13.58	12.3	13.86	12.6	13.56	11.5	14.66	11.28	14.88	11.15	15.01
MW-114	7-17	29.43	15.57	13.86	14.24	15.19	14.84	14.59	14.66	14.77	14.31	15.12	12.08	17.35	11.11	18.32	10.75	18.68
MW-115	10-25	27.15	17.97	9.18	18.38	8.77	18.81	8.34	18.37	8.78	18.24	8.91	16.18	10.97	15.85	11.3	15.86	11.29
MW-116	5-15	13.45	--	--	8.85	4.6	8.91	4.54	8.83	4.62	--	--	8.6	4.85	8.68	4.77	8.77	4.68
MW-117S	5 - 20	21.94	15.27	6.67	15.7	6.24	16.03	5.91	16.2	5.74	15.95	5.99	13.97	7.97	13.52	8.42	13.5	8.44
MW-117T	35 - 45	21.87	15.95	5.92	16.38	5.49	16.81	5.06	16.91	4.96	16.58	5.29	14.58	7.29	13.97	7.9	13.9	7.97
MW-117D	60 - 70	21.78	15.87	5.91	16.26	5.52	16.69	5.09	16.77	5.01	16.44	5.34	14.46	7.32	13.86	7.92	13.81	7.97
MW-118S	3 - 14	15.52	11.64	3.88	9.84	5.68	10.2	5.32	9.42	6.1	9.4	6.12	8.55	6.97	8.34	7.18	8.4	7.12
MW-118T	39.5 - 49.5	15.3	10.36	4.94	10.51	4.79	10.74	4.56	10.68	4.62	10.5	4.8	9.93	5.37	9.49	5.81	9.53	5.77
MW-118D	70 - 80	15.15	10.18	4.97	10.32	4.83	10.55	4.6	10.49	4.66	10.25	4.9	9.55	5.6	9.3	5.85	9.35	5.8
MW-119S	5 - 20	11.74	--	--	4.91	6.83	4.99	6.75	4.93	6.81	4.85	6.89	4.63	7.11	4.6	7.14	4.56	7.18
MW-119T	42 - 47	11.67	--	--	6.45	5.22	6.8	4.87	6.72	4.95	6.57	5.1	5.82	5.85	5.63	6.04	5.78	5.89
MW-120S	5 - 20	12.54	--	--	5.25	7.29	5.35	7.19	4.71	7.83	4.62	7.92	3.51	9.03	4.06	8.48	4	8.54
MW-120D	28 - 38	12.45	--	--	--	--	4.21	8.24	3.94	8.51	3.48	8.97	3.17	9.28	2.96	9.49	3.11	9.34
MW-121S	5 - 20	12.44	--	--	--	--	--	--	7.36	5.08	7.41	5.03	7.24	5.2	7.36	5.08	7.41	5.03
MW-121D	32 - 47	12.81	--	--	--	--	--	--	7.92	4.89	7.75	5.06	6.95	5.86	6.83	5.98	6.91	5.9
MW-122	4 - 16	16.42	--	--	--	--	--	--	--	--	--	--	--	--	12.98	3.44	13	3.42
GEO-1	5 - 20	25.88	11.93	13.95	12.1	13.78	12.21	13.67	11.98	13.9	11.91	13.97	11.41	14.47	11.22	14.66	--	--
GEO-2	5 - 20	26.54	13.6	12.94	12.81	13.73	12.91	13.63	12.63	13.91	12.57	13.97	12.02	14.52	11.77	14.77	--	--
GEO-3	5 - 20	25.64	---	---	12.7	12.94	12.94	12.7	12.61	13.03	12.54	13.1	10.99	14.65	10.71	14.93	--	--
GEO-4	4 - 19	21.69	12.09	9.6	12.55	9.14	13.02	8.67	12.64	9.05	12.47	9.22	11.72	9.97	10.36	11.33	10.34	11.35
GEO-5	5 - 20	20.14	11.25	8.89	11.74	8.4	11.18	8.96	11.72	8.42	12.62	7.52	9.92	10.22	9.42	10.72	9.52	10.62
GEO-6	5 - 20	17.62	9.5	8.12	9.92	7.7	10.22	7.4	9.96	7.66	9.96	7.66	8.21	9.41	7.78	9.84	7.86	9.76
SH-1	9 - 14	29.55	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-2	7 - 14	29.64	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-3	8 - 13	29.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-4	11 - 16	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-5	8 - 13	29.63	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW1	10 - 30	24.02	---	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SH-MW2	10 - 25	24.27	13.48	10.79	13.72	10.55	14.04	10.23	13.68	10.59	13.85	10.42	12.77	11.5	12.49	11.78	12.46	11.81
SH-MW3	10 - 24	22.31	12.08	10.23	12.43	9.88	12.79	9.52	12.41	9.9	12.05	10.26	11.55	10.76	10.68	11.63	10.65	11.66
MW201	11-21	27.51	--	--	13.71	13.8	13.83	13.68	13.58	13.93	13.5	14.01	12.98	14.53	12.76	14.75	12.64	14.87
MW202	10.5-20.5	27.82	--	--	13.99	13.83	14.08	13.74	13.88	13.94	13.81	14.01	13.41	14.41	13.22	14.6	13.12	14.7
MW203	6-18	21.8	--	--	14.05	7.75	14.39	7.41	13.86	7.94	13.61	8.19	12.86	8.94	12.03	9.77	12	9.8

General Notes:
1. ft = feet.
2. bgs = below ground surface.
3. NAVD = North American Vertical Datum of 1988.
4. The top of the PVC riser was used as the measuring point for depth to groundwater.
5. "--" = Well not yet installed, or not measured.

Table 4-11
Monitoring Well Permeability Testing Data
50 Tufts Street
Somerville, Massachusetts

Monitoring Well ID	Well Type	Well Screen Interval (ft bgs)	Well Bottom (ft bgs)	Approximate Aquifer Thickness[6] (ft)	Effective Borehole Diameter (in)	Rising Head Tests[8]				Falling Head Tests[9]			
						Test ID	Test Date	Hydraulic Conductivity Bouwer & Rice (cm/s)	Hydraulic Conductivity Hvorslev (cm/s)	Test ID	Test Date	Hydraulic Conductivity Bouwer & Rice (cm/s)	Hydraulic Conductivity - Hvorslev (cm/s)
GEO-1	Shallow Overburden	5-20	20	30	4.25^3	t1	12/18/07	2.21E-03	--	NA		--	--
GEO-2	Shallow Overburden	5-20	20	30	4.25^3	t2	12/18/07	1.57E-03	--	NA		--	--
GEO-3	Shallow Overburden	5-20	20	25	4.25^3	t1	12/27/07	5.13E-05	--	NA		--	--
GEO-5	Shallow Overburden	5-20	20	35	4.25^3	t1	12/27/07	9.82E-05	--	NA		--	--
GEO-6	Shallow Overburden	5-20	20	35	4.25^3	t1	12/26/07	1.68E-05	--	NA		--	--
MW-101	Shallow Overburden	9 -19	19	35	4.25	t1	12/26/07	8.21E-04	--	NA		--	--
MW-102	Shallow Overburden	6-16	16	30	4.25	t1	12/26/07	7.28E-03	--	NA		--	--
MW-109	Shallow Overburden	3-13	15	--	4.25	NA	4/25/07	--	1.1E-06	NA		--	--
MW-111	Shallow Overburden	4-14	14	30	4.25	t1	12/27/07	5.87E-03	--	NA		--	--
MW-112A	Shallow Overburden	4-19	19	35	4.25^1	t1	12/26/07	1.05E-04	--	NA		--	--
MW116[10]	Bedrock	5-15	15	90^7	4.25^1	t1	12/27/07	2.20E-02	--	NA		--	--
MW117S	Shallow Overburden	5-20	20	50	4.25^1	t1	12/20/07	4.72E-05	--	NA		--	--
MW117T	Deep Overburden	35-45	45	50	4^5	t2	12/19/07	2.38E-04	6.54E-04	t3	12/19/07	1.41E-04	2.91E-04
MW117D[10]	Bedrock	60-70	70	--	2.5	NA	6/21/07	--	6.8E-05	NA		--	8.0E-07
MW118S	Shallow Overburden	3-14	14	53	4.25^3	t1	12/20/07	1.22E-02	--	NA		--	--
MW118T	Deep Overburden	39.5-49.5	49.5	53	4^5	t2	12/20/07	1.02E-03	1.87E-03	t5	12/20/07	2.76E-04	4.26E-04
MW118D[10]	Bedrock	70-80	80	--	2.5	NA	7/2/07	--	5.70E-04	NA		--	1.60E-07
MW119S	Shallow Overburden	5-20	20	50	6.25^2	t1	12/19/07	3.67E-02	--	NA		--	--
MW119T	Deep Overburden	42-47	47	50	5^5	t2	12/19/07	3.28E-02	8.97E-02	t4	12/19/07	4.01E-02	6.89E-02
MW120D[10]	Bedrock	28-38	38	65^7	5^5	t1	12/27/07	4.13E-04	6.71E-04	t3	12/27/07	5.35E-04	7.32E-04
MW121S	Shallow Overburden	5-20	20	25	6.25^2	t1	12/26/07	7.57E-03	--	NA		--	--
MW-122	Shallow Overburden	4-16	16	25	4^5	t1	2/1/08	1.54E-04	--	NA		--	--
MW-201	Shallow Overburden	11-21	21	30	3.5	t1	12/27/07	6.82E-03	--	NA		--	--
MW-202	Shallow Overburden	10.5-20.5	20.5	30	3.5	t1	12/19/07	2.76E-03	--	NA		--	--
SH-MW3	Shallow Overburden	10-24	24	30	3.5^4	t1	12/18/07	4.74E-04	--	NA		--	--

General Notes:

1. NA= Not Applicable.
2. in = inches.
3. ft = feet.
4. ft bgs = feet below ground surface.
5. cm/s = centimeters per second.

Footnotes:

1. Borehole diameters recorded as 4.5" on the soil boring logs were corrected to 4.25".
2. Borehole diameters recorded as 6" on the soil boring logs were corrected to 6.25".
3. Borehole diameters were not recorded for GEO-1, GEO-2, GEO-3, GEO-5, or GEO-6. A diameter of 4.25" was used.
4. A borehole diameter for SH-MW3 was not available. A borehole diameter of 3.5" was used
5. The borehole diameter given is the diameter of permanent or temporary (e.g. MW-122) casing.
6. The depth to bedrock was estimated based on boring logs, ground-penetrating radar (GPR) data, and bedrock contour maps prepared by Hager GeoSciences, Inc. of Woburn, MA.
7. Aquifer thickness for shallow and deep overburden was based on the depth to water and the approximate depth to bedrock.
8. The bedrock aquifer thickness is unknown and was estimated to be 100 ft.
9. Rising head test method: instantaneous removal of bailer out of the well and electronically recording rise in water level.
10. Falling head test method: instantaneous installation of solid PVC slug and electronically recording drop in water level.
11. The Hvorslev and Bouwer & Rice models were developed to determine the hydraulic conductivity of soil. Conditions in bedrock vary from the assumptions in the Hvorslev and Bouwer & Rice methodologies.

Table 4-12
Summary of Sub-Surface Utility Measurements - Storm Drains
50 Tufts Street
Somerville, Massachusetts

Location	Rim Elevation (ft NAVD)	Depth to Bottom (ft)	Bottom Elevation (ft NAVD)	Depth to Water (ft)	Water Elevation (ft NAVD)	Uncorrected PID Reading (ppm)	Water Sample (Y/N)
CB1	25.23	4.69	20.54	3.65	21.58	0.6	Y
CB2	25.76	4.03	21.73	3.41	22.35	0.0	Y
CB4	13.85	3.57	10.28	3.26	10.59	0.0	N
CB5/48	14.9	6.01	8.89	2.95	11.95	0.1	N
CB6	---	8.7	---	6.5	---	0.0	N
CB7	35.62	4.89	30.73	3.38	32.24	0.0	Y
CB12	12.86	2.95	9.91	2.91	9.95	0.0	N
CB18	11.98	4.08	7.9	dry	dry	1.5	N
CB19	9.84	3.0	6.84	2.4	7.44	17.6	N
CB20	10.15	2.40	7.75	2.20	7.95	0.0	N
CB22	14.13	3.28	10.85	3.07	11.06	0.0	Y
CB23	9.95	4.3	5.65	2.97	6.98	0.0	Y
CB24/50	9.96	4.43	5.53	2.9	7.06	0.0	N
CB25	10.68	5.53	5.15	2.8	7.88	0.0	Y
CB26/51	10.19	5.85	4.34	3.25	6.94	0.0	Y
CB27/52	10.17	4.58	5.59	3.3	6.87	0.0	N
CB28/54	10.5	6.6	3.9	3.53	6.97	0.0	Y
CB29	12.56	2.82	9.74	2.65	9.91	0.0	Y
CB32	18.55	2.76	15.79	2.62	15.93	0.0	N
CB33	9.72	4.35	5.37	3.74	5.98	22.2	N
CB34	9.80	3.58	6.22	3.36	6.44	0.0	N
CB35	18.96	2.65	16.31	2.3	16.66	0.0	N
CB36	17.59	4.03	13.56	3.71	13.88	0.0	Y
CB37	39.89	7.05	32.84	3.10	36.79	0.0	Y
CB38	38.61	5.14	33.47	2.81	35.80	0.0	Y

General Notes:

1. Elevations were established by on the ground surveys by BSC Group, Inc. on 2/26/08 and 5/22/08.
2. ft = feet.
3. NAVD = North American Vertical Datum of 1988.
4. ppm = parts per million volatile organic compounds in air.
5. CB = Stormwater Catch Basin.
6. SMH = Sanitary Manhole.
7. PID = Photoionization Detector, which represents the form of detection in a hand-held Volatile Organic Meter.
8. "---" = No measurement available.
9. "dry" = No measureable amount of water in utility.
10. For water sample chemical testing results, see Table 5-6.

Table 4-12
Summary of Sub-Surface Utility Measurements: Storm Sewers
50 Tufts Street
Somerville, Massachusetts

Location	Rim Elevation (ft NAVD)	Depth to Bottom (ft)	Bottom Elevation (ft NAVD)	Depth to Water (ft)	Water Elevation (ft NAVD)	Uncorrected PID Reading (ppm)	Water Sample (Y/N)
CB39	30.06	2.16	27.90	dry	dry	0.0	N
CB40	29.22	4.30	24.92	2.85	26.37	0.0	Y
CB41	26.72	3.39	23.33	2.64	24.08	0.0	Y
CB42	27.41	4.06	23.35	4.03	23.38	0.0	N
CB43	28.57	5.41	23.16	3.61	24.96	0.0	Y
CB44	28.87	4.49	24.38	3.42	25.45	0.0	N
CB53	26.52	4.22	22.30	2.21	24.31	0.0	Y
CB100	12.4	4.30	8.10	3.50	8.90	0.0	Y
CB101	14.91	2.72	12.19	2.48	12.43	0.0	Y
CB102	24.67	3.49	21.18	2.89	21.78	0.0	Y
CB103	23.75	4.16	19.59	3.99	19.76	0.0	Y
CB104	13.09	4.85	8.24	3.95	9.14	0.0	Y
CB	---	6.3	---	4.04	---	0.0	N
CB CAP	12.64	5.82	6.82	2.05	10.59	0.0	Y
CB YARD	---	4.82	---	2.61	---	0.0	N

General Notes:

1. Elevations were established by on the ground surveys by BSC Group, Inc. on 2/26/08 and 5/22/08.
2. ft = feet.
3. NAVD = North American Vertical Datum of 1988.
4. ppm = parts per million volatile organic compounds in air.
5. CB = Stormwater Catch Basin.
6. SMH = Sanitary Manhole.
7. PID = Photoionization Detector, which represents the form of detection in a hand-held Volatile Organic Meter.
8. "---" = No measurement available.
9. "dry" = No measureable amount of water in utility.
10. For water sample chemical testing results, see Table 5-6.

Table 4-13
Summary of Sub-Surface Utility Measurements - Sanitary Sewers
50 Tufts Street
Somerville, Massachusetts

Location	Rim Elevation (ft NAVD)	Depth to Bottom (ft)	Bottom Elevation (ft NAVD)	Depth to Water (ft)	Water Elevation (ft NAVD)	Uncorrected PID Reading (ppm)	Water Sample (Y/N)
SMH6	15.09	10.43	4.66	10.40	4.69	1.1	N
SMH11	15.26	12.75	2.51	12.53	2.73	0.0	N
SMH12	15.66	10.50	5.16	10.40	5.26	0.0	N
SMH13	13.00	7.42	5.58	7.29	5.71	0.0	N
SMH14	11.52	6.4	5.12	6.2	5.32	0.0	Y
SMH15	11.17	7.10	4.07	6.90	4.27	0.1	N
SMH17	14.50	9.20	5.3	8.90	5.6	0.3	N
SMH18	15.37	11.48	3.89	11.20	4.17	0.0	N
SMH21	11.06	5.98	5.08	5.88	5.18	0.0	N
SMH22	12.24	6.28	5.96	5.75	6.49	0.0	N
SMH27	17.53	9.23	8.3	9.20	8.33	0.0	N
SMH29	17.76	11.25	6.51	11.15	6.61	0.0	N
SMH30	20.47	10.23	10.24	dry	dry	0.0	N
SMH31	31.30	9.56	21.74	9.50	21.80	0.0	N
SMH32	15.07	8.67	6.40	8.58	6.49	0.0	N
SMH33	14.69	9.75	4.94	9.58	5.11	0.0	N
SMH36	27.17	11.24	15.93	11.20	15.97	0.0	N
SMH37	26.05	11.40	14.65	10.30	15.75	0.8	N
SMH39	11.00	6.20	4.8	5.95	5.05	0.0	N
SMH40	10.62	5.25	5.37	5.05	5.57	0.0	N
SMH41	27.05	7.71	19.34	7.70	19.35	0.0	N
SMH42	30.70	8.00	22.70	7.90	22.80	0.0	N
SMH43	10.85	7.20	3.65	7.05	3.8	0.0	N
SMH44	16.03	11.10	4.93	10.80	5.23	0.0	Y
SMH47	11.09	5.20	5.89	5.15	5.94	0.0	N
SMH49	18.24	9.00	9.24	8.87	9.37	0.2	N
SMH50	16.89	9.00	7.89	dry	dry	0.0	N
SMH100	24.69	2.88	21.81	dry	dry	0.0	N
SMH102	14.00	9.50	4.50	9.45	4.55	1.1	Y
SMH103	abandoned	2.75	---	dry	dry	0.0	N
SMH CAP	---	2.68	---	dry	dry	0.0	N

General Notes:

1. Elevations were established by on the ground surveys by BSC Group, Inc. on 2/26/08 and 5/22/08.
2. ft = feet.
3. NAVD = North American Vertical Datum of 1988.
4. ppm = parts per million volatile organic compounds in air.
5. CB = Stormwater Catch Basin.
6. SMH = Sanitary Manhole.
7. PID = Photoionization Detector, which represents the form of detection in a hand-held Volatile Organic Meter.
8. "---" = No measurement available.
9. "dry" = No measureable amount of water in utility.
10. "abandoned" = Utility is no longer in use, and is filled.
11. For water sample chemical testing results, see Table 5-6.

Table 5-1
Chemical Testing Results - Subsurface Soil
50 Tufts Street
Somerville, Massachusetts

		Location Name:	50 Tufts	Garden		GEO-1		GEO-4	MW101				MW102		MW103		
		Sample Name:	SHB1-S3	GARDEN-1 (2'-2.5')	GARDEN-2 (2'-2.5')	GEO-1 (0-2)	GEO-1 (6-8)	GEO-4 (11-13)	MW101S1	MW101S4	MW101S5	MW101S6	MW102S1	MW102S5	MW103S1	MW103S2	MW103S6
		Sample Depth (ft):	8 to 12	2.0 to 2.5	2.0 to 2.5	0 to 2	6 to 8	11 to 13	2 to 3	13.5 to 15.5	15.5 to 17.5	17.5 to 19.5	2 to 3	12.5 to 14.6	2 to 3	6 to 8	14 to 16
		Sample Date:	6/21/02	3/30/07	3/30/07	8/12/04	8/12/04	8/12/04	4/27/06	5/1/06	5/1/06	5/1/06	4/27/06	5/1/06	4/27/06	5/1/06	5/1/06
Analyte	Method	Units															
Volatile Organic Compounds (VOCs)																	
Benzene	8260	mg/kg	< 0.071	NT	NT	< 0.0673	< 0.095	< 0.0556	< 0.033	< 0.025	< 0.026	< 0.023	< 0.029	< 0.021	< 0.03	< 0.023	< 0.021
Butanone,2- (MEK)			1.1	NT	NT	< 0.673	< 0.95	< 0.556	< 0.33	< 0.25	< 0.26	< 0.23	< 0.29	< 0.21	< 0.3	< 0.23	< 0.21
Butylbenzene,sec-			< 0.071	NT	NT	< 0.0673	< 0.095	< 0.0556	< 0.33	< 0.25	< 0.26	< 0.23	< 0.29	< 0.21	< 0.3	< 0.23	< 0.21
Dichloroethane,1,1-			< 0.1	< 0.098	< 0.099	< 0.0673	< 0.095	< 0.0556	< 0.13	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082
Dichloroethylene, cis-1,2-			< 0.071	< 0.098	< 0.099	< 0.0673	< 0.095	< 0.0556	< 0.13	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082
Ethylbenzene			< 0.071	NT	NT	< 0.0673	< 0.095	< 0.0556	< 0.13	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082
Isopropyltoluene,4-			< 0.071	NT	NT	< 0.0673	< 0.095	< 0.0556	< 0.33	< 0.25	< 0.26	< 0.23	< 0.29	< 0.21	< 0.3	< 0.23	< 0.21
Methyl tert-butyl ether			< 0.14	NT	NT	< 0.0673	< 0.095	< 0.0556	< 0.13	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082
Methyl-2-pentanone,4- (MIBK)			0.86 J	NT	NT	< 0.673	< 0.95	< 0.556	< 0.33	< 0.25	< 0.26	< 0.23	< 0.29	< 0.21	< 0.3	< 0.23	< 0.21
Methylene chloride			0.1 J	NT	NT	< 0.673	< 0.95	< 0.556	< 0.13	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082
Naphthalene			< 0.35	NT	NT	< 0.0673	< 0.095	< 0.0556	< 0.33	< 0.25	< 0.26	< 0.23	< 0.29	< 0.21	< 0.3	< 0.23	< 0.21
Propylbenzene, n-			< 0.35	NT	NT	< 0.0673	< 0.095	< 0.0556	< 0.33	< 0.25	< 0.26	< 0.23	< 0.29	< 0.21	< 0.3	< 0.23	< 0.21
Tetrachloroethylene (PCE)			7.8	< 0.098	< 0.099	2.45	8.07	0.111	0.989	0.0649 J	0.054 J	0.0699 J	< 0.12	0.164	< 0.12	< 0.091	0.722
Toluene			< 0.1	NT	NT	< 0.0673	< 0.095	< 0.0556	< 0.33	< 0.25	< 0.26	< 0.23	< 0.29	< 0.21	< 0.3	< 0.23	< 0.21
Trichloroethane,1,1,1- (TCA)			2.7	< 0.098	< 0.099	0.145	1.33	0.0795	0.0767 J	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082
Trichloroethylene (TCE)			4.4	< 0.098	< 0.099	0.164	1.12	< 0.0556	0.358	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082
Trimethylbenzene, 1,3,5-			< 0.35	NT	NT	< 0.0673	< 0.095	< 0.0556	< 0.33	< 0.25	< 0.26	< 0.23	< 0.29	< 0.21	< 0.3	< 0.23	< 0.21
Xylene, m,p-			< 0.071	NT	NT	< 0.135	< 0.19	< 0.111	< 0.13	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082
Xylene, o-			< 0.071	NT	NT	< 0.0673	< 0.095	< 0.0556	< 0.13	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082
Total Xylenes			NT	NT	NT	NT	NT	NT	< 0.13	< 0.1	< 0.1	< 0.093	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082
Volatile Petroleum Hydrocarbons (VPH)																	
C5-C8 Aliphatics	MAVPH	mg/kg	2.95	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Extractable Petroleum Hydrocarbons (EPH)																	
C11-C22 Aromatics	MAEPH	mg/kg	< 11.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Other																	
Solids, Percent	1603M	%	NT	88.8	89.3	NT	NT	NT	75.2	86	84.4	83.9	82.3	91.6	85.9	92.2	87.4
Specific Conductivity	E120.1	µmhos/cm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	9060	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
pH	9045	s.u.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:

1. Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. µmhos/cm = micro-ohms per centimeter.
5. s.u. = standard units.
6. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
7. NT = Not Tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-1
Chemical Testing Results - Subsurface Soil
50 Tufts Street
Somerville, Massachusetts

		Location Name:	MW104			MW105		MW106				MW107				MW108	
		Sample Name:	MW104-S1	MW104-S2	MW104-S3C	MW105S1	MW105S9	B106 (12-14')	B106 (16-18')	B106-VAC-COMP	B106-VAC-GRAB	B107 (20-21')	B107 (7-9')	B107-VAC-COMP	B107-VAC-GRAB	B108 (7-8')	B108-VAC-COMP
		Sample Depth (ft):	0 to 5	5 to 10	10 to 15	2 to 3	23 to 25	12 to 14	16 to 18	2 to 4	3	20 to 21	7 to 9	2 to 4	3	7 to 8	2 to 4
		Sample Date:	5/17/06	5/17/06	5/17/06	4/28/06	5/2/06	1/5/07	1/5/07	1/3/07	1/3/07	1/5/07	1/5/07	1/3/07	1/3/07	1/5/07	1/3/07
Analyte	Method	Units															
Volatile Organic Compounds (VOCs)																	
Benzene	8260	mg/kg	< 0.032	< 0.023	< 0.026	< 0.038	< 0.021	< 0.022	< 0.021	NT	< 0.029	< 0.017	< 0.03	NT	< 0.025	< 0.028	NT
Butanone,2- (MEK)			< 0.32	< 0.23	< 0.26	< 0.38	< 0.21	< 0.22	< 0.21	NT	< 0.29	< 0.17	< 0.3	NT	< 0.25	< 0.28	NT
Butylbenzene,sec-			< 0.32	< 0.23	< 0.26	< 0.38	< 0.21	< 0.22	< 0.21	NT	< 0.29	< 0.17	< 0.3	NT	< 0.25	< 0.28	NT
Dichloroethane,1,1-			< 0.13	< 0.092	1.39	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	0.145	< 0.12	NT	< 0.099	< 0.11	NT
Dichloroethylene, cis-1,2-			< 0.13	< 0.092	1.44	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	< 0.069	< 0.12	NT	< 0.099	< 0.11	NT
Ethylbenzene			0.0416 J	< 0.092	< 0.1	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	< 0.069	< 0.12	NT	< 0.099	< 0.11	NT
Isopropyltoluene,4-			< 0.32	< 0.23	< 0.26	< 0.38	< 0.21	< 0.22	< 0.21	NT	< 0.29	< 0.17	< 0.3	NT	< 0.25	< 0.28	NT
Methyl tert-butyl ether			< 0.13	< 0.092	< 0.1	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	< 0.069	< 0.12	NT	< 0.099	< 0.11	NT
Methyl-2-pentanone,4- (MIBK)			< 0.32	< 0.23	< 0.26	< 0.38	< 0.21	< 0.22	< 0.21	NT	< 0.29	< 0.17	< 0.3	NT	< 0.25	< 0.28	NT
Methylene chloride			< 0.13	< 0.092	< 0.1	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	< 0.069	< 0.12	NT	< 0.099	< 0.11	NT
Naphthalene			< 0.32	< 0.23	< 0.26	< 0.38	< 0.21	< 0.22	< 0.21	NT	< 0.29	< 0.17	< 0.3	NT	< 0.25	< 0.28	NT
Propylbenzene, n-			< 0.32	< 0.23	< 0.26	< 0.38	< 0.21	< 0.22	< 0.21	NT	< 0.29	< 0.17	< 0.3	NT	< 0.25	< 0.28	NT
Tetrachloroethylene (PCE)			0.949	4.25	0.564	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	< 0.069	< 0.12	NT	< 0.099	< 0.11	NT
Toluene			0.0757 J	0.0216 J	< 0.26	< 0.38	< 0.21	< 0.22	< 0.21	NT	< 0.29	< 0.17	< 0.3	NT	< 0.25	< 0.28	NT
Trichloroethane,1,1,1- (TCA)			< 0.13	< 0.092	0.781	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	< 0.069	< 0.12	NT	< 0.099	< 0.11	NT
Trichloroethylene (TCE)			< 0.13	0.093	0.593	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	< 0.069	< 0.12	NT	< 0.099	< 0.11	NT
Trimethylbenzene, 1,3,5-			< 0.32	< 0.23	< 0.26	< 0.38	< 0.21	< 0.22	< 0.21	NT	< 0.29	< 0.17	< 0.3	NT	< 0.25	< 0.28	NT
Xylene, m,p-			0.125 J	< 0.092	< 0.1	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	< 0.069	< 0.12	NT	< 0.099	< 0.11	NT
Xylene, o-			0.0571 J	< 0.092	< 0.1	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	< 0.069	< 0.12	NT	< 0.099	< 0.11	NT
Total Xylenes			0.182	< 0.092	< 0.1	< 0.15	< 0.083	< 0.087	< 0.083	NT	< 0.11	< 0.069	< 0.12	NT	< 0.099	< 0.11	NT
Volatile Petroleum Hydrocarbons (VPH)																	
C5-C8 Aliphatics	MAVPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Extractable Petroleum Hydrocarbons (EPH)																	
C11-C22 Aromatics	MAEPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Other																	
Solids, Percent	1603M	%	90.1	87.9	85.5	88.5	90.7	86.7	85.9	85.3	85.3	93.3	76.5	79.8	79.8	76.5	86.7
Specific Conductivity	E120.1	µmhos/cm	NT	NT	NT	NT	NT	1420	883	137	NT	214	205	142	NT	900	109
Total Organic Carbon	9060	mg/kg	NT	NT	NT	NT	NT	< 1100	< 1100	28200	NT	< 1000	< 1300	4090	NT	6650	4430
pH	9045	s.u.	NT	NT	NT	NT	NT	7.1	6.8	6.9	NT	7.1	7.5	7.3	NT	7	6.8

General Notes:

1. Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. µmhos/cm = micro-ohms per centimeter.
5. s.u. = standard units.
6. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
7. NT = Not Tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-1

Chemical Testing Results - Subsurface Soil

50 Tufts Street

Somerville, Massachusetts

Location Name:			MW108	MW109				MW110					MW111				MW112
Sample Name:			B108-VAC-GRAB	B109 (13-15')	B109 (7-9')	B109-VAC-COMP	B109-VAC-GRAB	B100	B110 (13-14')	B110 (7-9')	B110-VAC-COMP	B110-VAC-GRAB	B111 (13-15')	B111 (7-9')	B111-VAC-COMP	B111-VAC-GRAB	B112 (6-7')
Sample Depth (ft):			3	13 to 15	7 to 9	2 to 4	3	7 to 9	13 to 14	7 to 9	2 to 4	3	13 to 15	7 to 9	2 to 4	3	6 to 7
Sample Date:			1/3/07	1/5/07	1/5/07	1/3/07	1/3/07	1/8/07	1/8/07	1/8/07	1/4/07	1/4/07	1/8/07	1/8/07	1/4/07	1/4/07	1/8/07
Analyte	Method	Units															
Volatile Organic Compounds (VOCs)																	
Benzene	8260	mg/kg	< 0.021	< 0.019	< 0.022	NT	< 0.026	< 0.027	< 0.023	< 0.029	NT	< 0.025	< 0.019	< 0.026	NT	< 0.022	< 0.028
Butanone,2- (MEK)			< 0.21	< 0.19	< 0.22	NT	< 0.26	< 0.27	< 0.23	< 0.29	NT	< 0.25	< 0.19	< 0.26	NT	< 0.22	< 0.28
Butylbenzene,sec-			< 0.21	< 0.19	< 0.22	NT	< 0.26	< 0.27	< 0.23	< 0.29	NT	< 0.25	< 0.19	< 0.26	NT	< 0.22	< 0.28
Dichloroethane,1,1-			< 0.084	< 0.075	< 0.088	NT	< 0.1	< 0.11	< 0.092	< 0.11	NT	< 0.1	< 0.075	< 0.1	NT	< 0.087	< 0.11
Dichloroethylene, cis-1,2-			< 0.084	< 0.075	< 0.088	NT	< 0.1	< 0.11	< 0.092	< 0.11	NT	< 0.1	< 0.075	< 0.1	NT	< 0.087	< 0.11
Ethylbenzene			< 0.084	< 0.075	< 0.088	NT	< 0.1	< 0.11	< 0.092	< 0.11	NT	< 0.1	< 0.075	< 0.1	NT	< 0.087	< 0.11
Isopropyltoluene,4-			< 0.21	< 0.19	< 0.22	NT	< 0.26	< 0.27	< 0.23	< 0.29	NT	< 0.25	< 0.19	< 0.26	NT	< 0.22	< 0.28
Methyl tert-butyl ether			< 0.084	< 0.075	< 0.088	NT	< 0.1	< 0.11	< 0.092	< 0.11	NT	< 0.1	< 0.075	< 0.1	NT	< 0.087	< 0.11
Methyl-2-pentanone,4- (MIBK)			< 0.21	< 0.19	< 0.22	NT	< 0.26	< 0.27	< 0.23	< 0.29	NT	< 0.25	< 0.19	< 0.26	NT	< 0.22	< 0.28
Methylene chloride			< 0.084	< 0.075	< 0.088	NT	< 0.1	< 0.11	< 0.092	< 0.11	NT	< 0.1	0.0176 J	< 0.1	NT	< 0.087	< 0.11
Naphthalene			< 0.21	< 0.19	< 0.22	NT	< 0.26	< 0.27	< 0.23	< 0.29	NT	< 0.25	< 0.19	< 0.26	NT	< 0.22	< 0.28
Propylbenzene, n-			< 0.21	< 0.19	< 0.22	NT	< 0.26	< 0.27	< 0.23	< 0.29	NT	< 0.25	< 0.19	< 0.26	NT	< 0.22	< 0.28
Tetrachloroethylene (PCE)			< 0.084	0.242	< 0.088	NT	0.324	< 0.11	< 0.092	< 0.11	NT	< 0.1	3.15	< 0.1	NT	< 0.087	< 0.11
Toluene			< 0.21	< 0.19	< 0.22	NT	< 0.26	< 0.27	< 0.23	< 0.29	NT	< 0.25	< 0.19	< 0.26	NT	< 0.22	< 0.28
Trichloroethane,1,1,1- (TCA)			< 0.084	< 0.075	< 0.088	NT	< 0.1	< 0.11	< 0.092	< 0.11	NT	< 0.1	< 0.075	< 0.1	NT	< 0.087	< 0.11
Trichloroethylene (TCE)			< 0.084	< 0.075	< 0.088	NT	< 0.1	< 0.11	< 0.092	< 0.11	NT	< 0.1	0.0469 J	< 0.1	NT	< 0.087	< 0.11
Trimethylbenzene, 1,3,5-			< 0.21	< 0.19	< 0.22	NT	< 0.26	< 0.27	< 0.23	< 0.29	NT	< 0.25	< 0.19	< 0.26	NT	< 0.22	< 0.28
Xylene, m,p-			< 0.084	< 0.075	< 0.088	NT	< 0.1	< 0.11	< 0.092	< 0.11	NT	< 0.1	< 0.075	< 0.1	NT	< 0.087	< 0.11
Xylene, o-			< 0.084	< 0.075	< 0.088	NT	< 0.1	< 0.11	< 0.092	< 0.11	NT	< 0.1	< 0.075	< 0.1	NT	< 0.087	< 0.11
Total Xylenes			< 0.084	< 0.075	< 0.088	NT	< 0.1	< 0.11	< 0.092	< 0.11	NT	< 0.1	< 0.075	< 0.1	NT	< 0.087	< 0.11
Volatile Petroleum Hydrocarbons (VPH)																	
C5-C8 Aliphatics	MAVPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Extractable Petroleum Hydrocarbons (EPH)																	
C11-C22 Aromatics	MAEPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Other																	
Solids, Percent	1603M	%	86.7	89.2	85.3	79.9	79.9	77.4	84.3	77.3	81	81	90.3	80.1	89.4	89.4	76.5
Specific Conductivity	E120.1	µmhos/cm	NT	254	306	109	NT	606	325	614	262	NT	226	146	107	NT	685
Total Organic Carbon	9060	mg/kg	NT	< 1100	4620	5580	NT	1630	< 1100	3660	4380	NT	< 1100	< 1200	< 1000	NT	< 1300
pH	9045	s.u.	NT	8.2	9.2	5.9	NT	6.5	8	7	6.8	NT	6.8	6.8	8.1	NT	7.2

General Notes:

1. Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. µmhos/cm = micro-ohms per centimeter.
5. s.u. = standard units.
6. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
7. NT = Not Tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.

F+ The result has a high bias due to matrix spike recovery above upper control limits.

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-1

Chemical Testing Results - Subsurface Soil

50 Tufts Street
Somerville, Massachusetts

		Location Name:	MW112		MW112A			MW113				MW114			MW115		
		Sample Name:	B112-VAC-COMP	B112-VAC-GRAB	B112A (0-3')	B112A (10-12')	B112A (17-19')	MW100	MW113 (11'-13')	MW113 (19'-21')	MW113 (2'-4')	MW114 (11'-13')	MW114 (19'-20')	MW114 (2'-4')	MW115 (18'-20')	MW115 (2'-4')	MW115R (19-20')
		Sample Depth (ft):	2 to 4	3	0 to 3	10 to 12	17 to 19	11 to 13	11 to 13	19 to 21	2 to 4	11 to 13	19 to 20	2 to 4	18 to 20	2 to 4	19 to 20
		Sample Date:	1/4/07	1/4/07	3/10/07	3/10/07	3/10/07	2/15/07	2/15/07	2/15/07	2/13/07	2/15/07	2/15/07	2/13/07	2/15/07	2/13/07	2/21/07
Analyte	Method	Units															
Volatile Organic Compounds (VOCs)																	
Benzene	8260	mg/kg	NT	< 0.027	< 0.031	< 0.02	< 0.022	< 0.028	< 0.029	< 0.02	< 0.026	< 0.022	< 0.021	< 0.028	< 0.022	< 0.031	< 0.033
Butanone,2- (MEK)			NT	< 0.27	< 0.31	< 0.2	< 0.22	< 0.28	< 0.29	< 0.2	< 0.26	< 0.22	< 0.21	< 0.28	< 0.22	< 0.31	< 0.33
Butylbenzene,sec-			NT	< 0.27	< 0.31	< 0.2	< 0.22	< 0.28	< 0.29	< 0.2	< 0.26	< 0.22	< 0.21	< 0.28	< 0.22	< 0.31	0.0484 J
Dichloroethane,1,1-			NT	< 0.11	0.13 J	< 0.081	0.0265 J	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	< 0.13
Dichloroethylene, cis-1,2-			NT	< 0.11	< 0.13	< 0.081	< 0.087	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	< 0.13
Ethylbenzene			NT	< 0.11	< 0.13	< 0.081	< 0.087	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	< 0.13
Isopropyltoluene,4-			NT	< 0.27	< 0.31	< 0.2	< 0.22	< 0.28	< 0.29	< 0.2	< 0.26	< 0.22	< 0.21	< 0.28	< 0.22	< 0.31	0.0678 J
Methyl tert-butyl ether			NT	< 0.11	0.13 J	< 0.081	0.0184 J	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	< 0.13
Methyl-2-pentanone,4- (MIBK)			NT	< 0.27	< 0.31	< 0.2	< 0.22	< 0.28	< 0.29	< 0.2	< 0.26	< 0.22	< 0.21	< 0.28	< 0.22	< 0.31	< 0.33
Methylene chloride			NT	< 0.11	< 0.13	< 0.081	< 0.087	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	< 0.13
Naphthalene			NT	< 0.27	< 0.31	< 0.2	< 0.22	< 0.28	< 0.29	< 0.2	< 0.26	< 0.22	< 0.21	< 0.28	< 0.22	< 0.31	0.736
Propylbenzene, n-			NT	< 0.27	< 0.31	< 0.2	< 0.22	< 0.28	< 0.29	< 0.2	< 0.26	< 0.22	< 0.21	< 0.28	< 0.22	< 0.31	0.0489 J
Tetrachloroethylene (PCE)			NT	0.11 F+	0.13 J	0.0471 J	1.04	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	< 0.13
Toluene			NT	< 0.27	< 0.31	< 0.2	< 0.22	< 0.28	< 0.29	< 0.2	< 0.26	< 0.22	< 0.21	< 0.28	< 0.22	< 0.31	< 0.33
Trichloroethane,1,1,1- (TCA)			NT	< 0.11	< 0.13	< 0.081	< 0.087	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	< 0.13
Trichloroethylene (TCE)			NT	< 0.11	< 0.13	< 0.081	0.138	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	< 0.13
Trimethylbenzene, 1,3,5-			NT	< 0.27	< 0.31	< 0.2	< 0.22	< 0.28	< 0.29	< 0.2	< 0.26	< 0.22	< 0.21	< 0.28	< 0.22	< 0.31	0.187 J
Xylene, m,p-			NT	< 0.11	< 0.13	< 0.081	< 0.087	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	0.0945 J
Xylene, o-			NT	< 0.11	< 0.13	< 0.081	< 0.087	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	0.0642 J
Total Xylenes			NT	< 0.11	< 0.13	< 0.081	< 0.087	< 0.11	< 0.12	< 0.08	< 0.11	< 0.09	< 0.084	< 0.11	< 0.089	< 0.13	0.159
Volatile Petroleum Hydrocarbons (VPH)																	
C5-C8 Aliphatics	MAVPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Extractable Petroleum Hydrocarbons (EPH)																	
C11-C22 Aromatics	MAEPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Other																	
Solids, Percent	1603M	%	81.8	81.8	80.5	92	85.9	79.6	77.9	87.2	89.9	87	92.7	81.4	86.4	82.5	74.8
Specific Conductivity	E120.1	µmhos/cm	1980	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	9060	mg/kg	4600	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
pH	9045	s.u.	6.8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:

1. Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. µmhos/cm = micro-ohms per centimeter.
5. s.u. = standard units.
6. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
7. NT = Not Tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-1

Chemical Testing Results - Subsurface Soil

50 Tufts Street
Somerville, Massachusetts

		Location Name:	MW116	MW117D	MW118D	MW119T		MW120D		MW121D			MW122			MW201
		Sample Name:	B116 (0-3')	B117D-S2	B118D-S2	B119-S4	B119-S7	B120-S3	B120-S7	MW121D-S3	MW121D-VAC1	MW121D-VAC2	B122-S1	B122-S3	B122-S6	MW201-GP3 (11-13')
		Sample Depth (ft):	0 to 3	8 to 10	10 to 12	6 to 8	14 to 16	4 to 6	14 to 16	10 to 12	0 to 3	0 to 3	6 to 8	10 to 12	16 to 18	11 to 13
		Sample Date:	3/10/07	6/18/07	6/25/07	8/7/07	8/7/07	8/8/07	8/8/07	10/6/07	10/5/07	10/5/07	1/23/08	1/24/08	1/24/08	7/11/07
Analyte	**Method**	**Units**														
Volatile Organic Compounds (VOCs)																
Benzene	8260	mg/kg	< 0.032	< 0.025	0.102	< 0.021	< 0.029	< 0.025	< 0.029	< 0.033	< 0.027	< 0.032	< 0.027	< 0.027	< 0.027	NT
Butanone,2- (MEK)			< 0.32	< 0.25	< 0.3	< 0.21	< 0.29	< 0.25	< 0.29	< 0.33	< 0.27	< 0.32	< 0.27	< 0.27	< 0.27	NT
Butylbenzene,sec-			< 0.32	< 0.25	< 0.3	< 0.21	< 0.29	< 0.25	< 0.29	< 0.33	< 0.27	< 0.32	< 0.27	< 0.27	< 0.27	NT
Dichloroethane,1,1-			< 0.13	< 0.1	< 0.12	< 0.086	< 0.12	< 0.1	< 0.12	< 0.13	< 0.11	< 0.13	< 0.11	< 0.11	< 0.11	< 0.095
Dichloroethylene, cis-1,2-			< 0.13	< 0.1	< 0.12	< 0.086	< 0.12	< 0.1	< 0.12	< 0.13	< 0.11	< 0.13	< 0.11	< 0.11	0.0475 J	< 0.095
Ethylbenzene			< 0.13	< 0.1	< 0.12	< 0.086	< 0.12	< 0.1	< 0.12	< 0.13	< 0.11	< 0.13	< 0.11	< 0.11	< 0.11	NT
Isopropyltoluene,4-			< 0.32	< 0.25	< 0.3	< 0.21	< 0.29	< 0.25	< 0.29	< 0.33	< 0.27	< 0.32	< 0.27	< 0.27	< 0.27	NT
Methyl tert-butyl ether			< 0.13	< 0.1	< 0.12	< 0.086	< 0.12	< 0.1	< 0.12	< 0.13	< 0.11	< 0.13	< 0.11	< 0.11	< 0.11	NT
Methyl-2-pentanone,4- (MIBK)			< 0.32	< 0.25	< 0.3	< 0.21	< 0.29	< 0.25	< 0.29	< 0.33	< 0.27	< 0.32	< 0.27	< 0.27	< 0.27	NT
Methylene chloride			< 0.13	0.0952 J,B	0.126 B	< 0.086	< 0.12	< 0.1	< 0.12	0.121 J,B	< 0.11	< 0.13	< 0.11	< 0.11	< 0.11	NT
Naphthalene			< 0.32	0.829	< 0.3	< 0.21	< 0.29	< 0.25	< 0.29	< 0.33	< 0.27	< 0.32	< 0.27	< 0.27	< 0.27	NT
Propylbenzene, n-			< 0.32	< 0.25	< 0.3	< 0.21	< 0.29	< 0.25	< 0.29	< 0.33	< 0.27	< 0.32	< 0.27	< 0.27	< 0.27	NT
Tetrachloroethylene (PCE)			< 0.13	< 0.1	0.233	< 0.086	< 0.12	< 0.1	< 0.12	< 0.13	< 0.11	< 0.13	0.0257 J	< 0.11	1.31	0.178
Toluene			< 0.32	< 0.25	0.0235 J	< 0.21	< 0.29	< 0.25	< 0.29	< 0.33	< 0.27	< 0.32	< 0.27	< 0.27	< 0.27	NT
Trichloroethane,1,1,1- (TCA)			< 0.13	< 0.1	< 0.12	< 0.086	< 0.12	< 0.1	< 0.12	< 0.13	< 0.11	< 0.13	< 0.11	< 0.11	< 0.11	< 0.095
Trichloroethylene (TCE)			< 0.13	< 0.1	< 0.12	< 0.086	< 0.12	< 0.1	< 0.12	< 0.13	< 0.11	< 0.13	< 0.11	< 0.11	0.0925 J	0.0344 J
Trimethylbenzene, 1,3,5-			< 0.32	< 0.25	< 0.3	< 0.21	< 0.29	< 0.25	< 0.29	< 0.33	< 0.27	< 0.32	< 0.27	< 0.27	< 0.27	NT
Xylene, m,p-			< 0.13	< 0.1	< 0.12	< 0.086	< 0.12	< 0.1	< 0.12	< 0.13	< 0.11	< 0.13	< 0.11	< 0.11	< 0.11	NT
Xylene, o-			< 0.13	< 0.1	< 0.12	< 0.086	< 0.12	< 0.1	< 0.12	< 0.13	< 0.11	< 0.13	< 0.11	< 0.11	< 0.11	NT
Total Xylenes			< 0.13	< 0.1	< 0.12	< 0.086	< 0.12	< 0.1	< 0.12	< 0.13	< 0.11	< 0.13	< 0.11	< 0.11	< 0.11	NT
Volatile Petroleum Hydrocarbons (VPH)																
C5-C8 Aliphatics	MAVPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Extractable Petroleum Hydrocarbons (EPH)																
C11-C22 Aromatics	MAEPH	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Other																
Solids, Percent	1603M	%	83.2	87.1	93.8	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Specific Conductivity	E120.1	µmhos/cm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	9060	mg/kg	NT	4740	9760	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
pH	9045	s.u.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:

1. Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. µmhos/cm = micro-ohms per centimeter.
5. s.u. = standard units.
6. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
7. NT = Not Tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-1

Chemical Testing Results - Subsurface Soil

50 Tufts Street
Somerville, Massachusetts

Location Name:			MW201	MW202		MW203		SH-1	SH-2	SH-3	SH-4	SH-5	SH-MW1	SH-MW2	SH-MW3
Sample Name:			MW201-GP4 (15-17')	MW202-GP3 (13-15')	MW202-GP4 (17-18')	MW203-GP2 (8-10')	MW203-GP3 (13-15')	SH1-S4	SH-2-S2A	SH-3-S1D	SH-4-S3	SH-5-S2	SH-MW1-S3	SH-MW2-S4	SH-MW3-S4
Sample Depth (ft):			15 to 17	13 to 15	17 to 18	8 to 10	13 to 15	12 to 14	4 to 5	3 to 4	8 to 12	4 to 8	10 to 12	15 to 17	15 to 17
Sample Date:			7/11/07	7/10/07	7/10/07	7/11/07	7/11/07	6/21/02	6/21/02	6/21/02	6/21/02	6/21/02	7/3/02	7/3/02	7/3/02
Analyte	Method	Units													
Volatile Organic Compounds (VOCs)															
Benzene	8260	mg/kg	NT	NT	NT	NT	NT	< 0.55	< 0.77	< 0.64	< 0.054	< 0.66	< 0.00074	< 0.1	< 0.00088
Butanone,2- (MEK)			NT	NT	NT	NT	NT	< 5.5	< 7.7	< 6.4	< 0.54	< 6.6	< 0.0074	< 1	< 0.0088
Butylbenzene,sec-			NT	NT	NT	NT	NT	< 0.55	< 0.77	< 0.64	< 0.054	< 0.66	< 0.00074	< 0.101	< 0.003
Dichloroethane,1,1-			< 0.089	< 0.096	< 0.085	< 0.11	< 0.081	< 0.82	< 1.2	< 0.96	< 0.08	< 0.99	< 0.0011	< 0.16	< 0.0013
Dichloroethylene, cis-1,2-			< 0.089	< 0.096	< 0.085	< 0.11	< 0.081	< 0.55	< 0.77	< 0.64	< 0.054	< 0.66	< 0.00074	< 0.1	< 0.00088
Ethylbenzene			NT	NT	NT	NT	NT	< 0.55	< 0.77	< 0.64	< 0.054	< 0.66	< 0.00074	< 0.1	< 0.00088
Isopropyltoluene,4-			NT	NT	NT	NT	NT	< 0.55	< 0.77	< 0.64	< 0.054	< 0.66	< 0.00074	< 0.1	< 0.00088
Methyl tert-butyl ether			NT	NT	NT	NT	NT	< 1.1	< 1.5	< 1.3	< 0.11	< 1.3	< 0.0015	< 0.21	< 0.0018
Methyl-2-pentanone,4- (MIBK)			NT	NT	NT	NT	NT	< 5.5	< 7.7	< 6.4	< 0.54	< 6.6	< 0.0074	< 1	< 0.0088
Methylene chloride			NT	NT	NT	NT	NT	< 5.5	< 7.7	< 6.4	< 0.54	< 6.6	< 0.0074	< 1	< 0.0088
Naphthalene			NT	NT	NT	NT	NT	< 2.7	< 3.9	< 3.2	< 0.27	< 3.3	< 0.0037	< 0.52	< 0.0044
Propylbenzene, n-			NT	NT	NT	NT	NT	< 2.7	< 3.9	< 3.2	< 0.27	< 3.3	< 0.00074	< 0.1	< 0.00088
Tetrachloroethylene (PCE)			0.058 J	< 0.096	< 0.085	0.0727 J	0.125	1500	1800	140	4.8	61	0.01	23	0.16
Toluene			NT	NT	NT	NT	NT	< 0.82	< 1.2	< 0.96	< 0.08	< 0.99	0.0037	< 0.16	< 0.0013
Trichloroethane,1,1,1- (TCA)			< 0.089	< 0.096	< 0.085	< 0.11	< 0.081	< 0.55	< 0.77	< 0.64	0.37	< 0.66	< 0.00074	0.24	0.0091
Trichloroethylene (TCE)			< 0.089	< 0.096	< 0.085	< 0.11	< 0.081	< 0.55	2.0	< 0.64	1.4	< 0.66	< 0.00074	0.32	0.0062
Trimethylbenzene, 1,3,5-			NT	NT	NT	NT	NT	< 2.7	< 3.9	< 3.2	< 0.27	< 3.3	< 0.0037	< 0.52	< 0.0044
Xylene, m,p-			NT	NT	NT	NT	NT	< 0.55	< 0.77	< 0.64	< 0.054	< 0.66	< 0.00074	< 0.1	< 0.00088
Xylene, o-			NT	NT	NT	NT	NT	< 0.55	< 0.77	< 0.64	< 0.054	< 0.66	< 0.00074	< 0.1	< 0.00088
Total Xylenes			NT	NT	NT	NT	NT	< 0.55	< 0.77	< 0.64	< 0.054	< 0.66	NT	NT	NT
Volatile Petroleum Hydrocarbons (VPH)															
C5-C8 Aliphatics	MAVPH	mg/kg	NT	NT	NT	NT	NT	300	833	43	< 1.75	NT	NT	NT	NT
Extractable Petroleum Hydrocarbons (EPH)															
C11-C22 Aromatics	MAEPH	mg/kg	NT	NT	NT	NT	NT	< 10.9	916	86.4	< 10.6	41	NT	NT	NT
Other															
Solids, Percent	1603M	%	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Specific Conductivity	E120.1	µmhos/cm	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	9060	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
pH	9045	s.u.	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:

1. Generally, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. µmhos/cm = micro-ohms per centimeter.
5. s.u. = standard units.
6. ND = The analyte was not detected above the laboratory reporting limit. See the laboratory data sheets for the laboratory reporting limit.
7. NT = Not Tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-2
Chemical Testing Results - Shallow Soil
50 Tufts Street
Somerville, Massachusetts

		Location Name:	10 Alston Street	74 Franklin Street	82 Franklin Street	95 R Franklin Street		163 Glen Street	19 Knowlton Street	29 Knowlton Street	35-37 Knowlton Street	4 Morton Street
		Sample Name:	10ALST-SOIL	74FRANK-SOIL	82FRANK-SOIL	95RBACK SOIL-1	95RBACK SOIL-5-7	163GLEN-SOIL	19KNOW-SOIL	29KNOW-SOIL	35-37KNOW-SOIL	4MORT-SOIL
		Sample Depth (inches):	6 to 8	10 to 12	8 to 10	0 to 12	60 to 84	10 to 12	10 to 12	12 to 14	10 to 12	6 to 8
		Sample Date:	2/19/08	2/21/08	3/6/08	1/8/08	1/8/08	2/19/08	3/11/08	2/21/08	2/19/08	2/7/08
Analyte	**Method**	**Units**										
Volatile Organic Compounds (VOCs)												
Methylene chloride	8260	mg/kg	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 0.10
Tetrachloroethylene (PCE)			< 0.17	< 0.13	< 0.13	< 0.16	< 0.18	< 0.12	< 0.13	< 0.12	< 0.15	0.537
Trichloroethane,1,1,1- (TCA)			< 0.17	< 0.13	< 0.13	< 0.16	< 0.18	< 0.12	< 0.13	< 0.12	< 0.15	< 0.10
Trichloroethylene (TCE)			< 0.17	< 0.13	< 0.13	< 0.16	< 0.18	< 0.12	< 0.13	< 0.12	< 0.15	< 0.10

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. mg/kg = milligram per kilogram.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. FD = Field Duplicate.
5. NT = Not Tested.

Qualifying Notes:
J The reported result is below the laboratory reporting limit is estimated.
B The reported result is attributed to sampling or laboratory contamination.

Footnote:
(a) Soil was collected beneath asphalt pavement.

Table 5-2
Chemical Testing Results - Shallow Soil
50 Tufts Street
Somerville, Massachusetts

Location Name:			13 Morton Street	23 Tufts Street		27 Tufts Street	50 Tufts Street					SB121A
Sample Name:			13MORT-SOIL	23TUFT-BS	23 TUFTS-BS (FD)	27TUFT-SOIL	50TUFT-SOIL1	50TUFT-SOIL2	50TUFT-SOIL3	50TUFT-SOIL4[a]	50TUFT-SOIL5	MW-121A-Vac1
Sample Depth (inches):			6 to 8	6 to 10	6 to 10	12 to 14	20 to 22	20 to 22	20 to 22	20 to 24	20 to 22	0 to 3
Sample Date:			2/7/08	2/1/08	2/1/08	2/19/08	2/26/08	2/26/08	2/26/08	2/26/08	2/26/08	10/5/07
Analyte	**Method**	**Units**										
Volatile Organic Compounds (VOCs)												
Methylene chloride	8260	mg/kg	< 0.14	NT	NT	NT	NT	NT	NT	NT	NT	0.0679 J,B
Tetrachloroethylene (PCE)			< 0.14	0.0994 J	0.124 J	< 0.16	10.4	0.0734 J	0.326	43.2	1.51	< 0.097
Trichloroethane,1,1,1- (TCA)			< 0.14	< 0.17	< 0.18	< 0.16	0.716	< 0.092	< 0.099	< 0.099	< 0.096	< 0.097
Trichloroethylene (TCE)			< 0.14	< 0.17	< 0.18	< 0.16	0.123	< 0.092	< 0.099	0.0529 J	< 0.096	< 0.097

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. mg/kg = milligram per kilogram.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. FD = Field Duplicate.
5. NT = Not Tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit is estimated.

B The reported result is attributed to sampling or laboratory contamination.

Footnote:

(a) Soil was collected beneath asphalt pavement.

Table 5-3

Chemical Testing Results - 95R Franklin Street Soil Samples

50 Tufts Street
Somerville, Massachusetts

		Sample Name:	045162-95RSUBSOIL	045162-95RFRANK-EASTSILT	045162-95RFRANK-EASTFILL	045162-95RFRANK-WESTSILT	045162-95RFRANK-WESTFILL	045162-95RFRANK-NORTH SILT	045162-95RFRANK-NORTH FILL	045162-95RFRANK-SOUTH SILT	045162-95RFRANK-SOUTH FILL	045162-95RBACK Soil 1	045162-95RBACK Soil-5-7	045162-95RFRONT Soil 1	045162-95RFRONT Soil-5-7
		Date Sampled:	12/5/07	12/14/07	12/14/07	12/14/07	12/14/07	12/11/2007	12/11/2007	12/11/2007	12/11/2007	1/8/2008	1/8/2008	1/9/2008	1/9/2008
Analyte	Method	Units													
Volatile Organic Compounds (VOCs)	8260	mg/kg													
Benzene			< 0.053	< 0.049	< 0.051	< 0.039	< 0.060	< 0.042	< 0.047	< 0.041	0.156	NT	NT	NT	NT
1,3-Dichlorobenzene			< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	< 0.170	< 0.190	< 0.410	0.520	NT	NT	NT	NT
1,4-Dichlorobenzene			< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	< 0.170	< 0.190	0.0740 J	0.365	NT	NT	NT	NT
1,1-Dichloroethane			0.107 J	< 0.190	0.430	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	< 0.260	NT	NT	NT	NT
1,1-Dichloroethylene			0.184 J	< 0.190	0.106 J	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	0.491	NT	NT	NT	NT
cis-1,2-Dichloroethylene			0.772	< 0.190	0.0969 J	< 0.160	0.132 J	< 0.170	< 0.190	< 0.170	0.674	NT	NT	NT	NT
Ethylbenzene			< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	0.0960 J	NT	NT	NT	NT
Methylene chloride			< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	0.0818 J,B	< 0.190	0.0827 J,B	0.205 J,B	NT	NT	NT	NT
Naphthalene			< 0.530	< 0.490	< 0.510	< 0.390	< 0.600	< 0.420	< 0.470	< 0.410	0.198 J	NT	NT	NT	NT
Tetrachloroethylene (PCE)			42.1	3.34	46.2	< 0.160	5.64	< 0.170	1.14	0.0381 J	58.9	< 0.160	< 0.180	< 0.130	< 0.250
Toluene			0.0558 J	< 0.490	< 0.510	< 0.390	< 0.600	< 0.420	< 0.470	< 0.410	0.264 J	NT	NT	NT	NT
1,1,1,-Trichloroethane (TCA)			0.0604 J	< 0.190	0.0476 J	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	< 0.260	< 0.160	< 0.180	< 0.130	< 0.250
Trichloroethylene (TCE)			3.31	0.319	2.16	< 0.160	0.660	< 0.170	0.268	< 0.170	6.17	< 0.160	< 0.180	< 0.130	< 0.250
1,2,4-Trimethylbenzene			< 0.530	< 0.490	< 0.510	< 0.390	< 0.600	< 0.420	< 0.470	< 0.420	0.268 J	NT	NT	NT	NT
m.p-Xylene			< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	0.575	NT	NT	NT	NT
o-Xylene			< 0.210	< 0.190	< 0.200	< 0.160	< 0.240	< 0.170	< 0.190	< 0.170	0.141 J	NT	NT	NT	NT
Total VOCs			46.18	3.66	48.8	ND	6.30	ND	6.30	ND	67.85	ND	ND	ND	ND
Semivolatile Organic Compounds (SVOCs)	8270C	mg/kg													
2-Methylphenol			NT	< 0.560	< 0.590	< 0.590	0.0633 J	NT	< 0.630	NT	NT	NT	NT	NT	NT
3&4-Methylphenol			NT	< 0.560	< 0.590	< 0.590	0.148 J	NT	< 0.630	NT	NT	NT	NT	NT	NT
Acenaphthylene			NT	< 0.280	0.257 J	0.0308 J	0.0563 J	NT	< 0.310	NT	NT	NT	NT	NT	NT
Acenaphthylene			NT	0.0592 J	0.636	0.368	0.264 J	NT	0.0571 J	NT	NT	NT	NT	NT	NT
Anthracene			NT	0.103 J	0.764	0.0398 J	0.136 J	NT	0.153 J	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene			NT	0.245 J	1.65	0.0526 J	0.327	NT	0.504	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene			NT	0.283	1.73	< 0.290	0.305 J	NT	0.514	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthylene			NT	0.617	1.79	< 0.290	0.671	NT	0.814	NT	NT	NT	NT	NT	NT
Benzo(g,h,i)perylene			NT	0.384	0.876	< 0.290	0.363	NT	0.575	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthylene			NT	0.290	1.44	< 0.290	0.301 J	NT	0.464	NT	NT	NT	NT	NT	NT
Bis(2-ethylhexyl)phthalate			NT	0.225 J	<0.300	0.194 J	0.208 J	NT	< 0.310	NT	NT	NT	NT	NT	NT
Chrysene			NT	0.274 J	1.84	0.0468 J	0.323	NT	0.509	NT	NT	NT	NT	NT	NT
Dibenz(a,h)anthracene			NT	0.230 J	0.479	< 0.290	0.292 J	NT	0.271 J	NT	NT	NT	NT	NT	NT
Dibenzofuran			NT	0.0388 J	0.424	0.187 J	0.151 J	NT	< 0.310	NT	NT	NT	NT	NT	NT
Di-n-butyl phtalate			NT	< 0.280	0.0801 J	< 0.290	< 0.310	NT	< 0.310	NT	NT	NT	NT	NT	NT
Di-n-octyl phthalate			NT	ND	ND	ND	ND	NT	ND	NT	NT	NT	NT	NT	NT

General Notes:

1. The laboratory analyses were performed by Accutest Laboratories.
2. In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
3. "<" = Analyte not detected at a concentration above the specified laboratory reporting limit.
4. ">" = Analyte detected at a concentration greater than the specified laboratory reporting limit.
5. mg/kg = milligrams per kilogram.
6. ND = Not detected above laboratory reporting limit. See the laboratory data reports for the detection limits.
7. µmhos/cm = micro-ohms per centimeter.
8. NT = Not tested.

Qualifying Notes:

B The analyte was found in the associated method blank.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-3

Chemical Testing Results - 95R Franklin Street Soil Samples

50 Tufts Street

Somerville, Massachusetts

		Sample Name:	045162-95RSUBSOIL	045162-95RFRANK-EASTSILT	045162-95RFRANK-EASTFILL	045162-95RFRANK-WESTSILT	045162-95RFRANK-WESTFILL	045162-95RFRANK-NORTH SILT	045162-95RFRANK-NORTH FILL	045162-95RFRANK-SOUTH SILT	045162-95RFRANK-SOUTH FILL	045162-95RBACK Soil 1	045162-95RBACK Soil-5-7	045162-95RFRONT Soil 1	045162-95RFRONT Soil-5-7
		Date Sampled:	12/5/07	12/14/07	12/14/07	12/14/07	12/14/07	12/11/2007	12/11/2007	12/11/2007	12/11/2007	1/8/2008	1/8/2008	1/9/2008	1/9/2008
Analyte	Method	Units													
Semivolatile Organic Compounds (SVOCs), continued															
Fluoranthylene	8270C	mg/kg	NT	0.622	3.64	0.135 J	0.808	NT	1.1	NT	NT	NT	NT	NT	NT
Fluorene			NT	< 0.280	0.45	0.167 J	0.145 J	NT	0.0379 J	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene			NT	0.361	1.07	< 0.290	0.35	NT	0.518	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene			NT	0.0888 J	1.18	0.755	0.553	NT	< 0.310	NT	NT	NT	NT	NT	NT
Naphthalene			NT	0.612	5.30	5.13	3.60	NT	0.0638 J	NT	NT	NT	NT	NT	NT
Phenanthrene			NT	0.469	3.02	0.220 J	0.620	NT	0.663	NT	NT	NT	NT	NT	NT
Pyrene			NT	0.469	2.77	0.0932 J	0.602	NT	0.939	NT	NT	NT	NT	NT	NT
Total SVOCs			NT	4.11	29.06	6.25	8.22	NT	6.60	NT	NT	NT	NT	NT	NT
Extractable Petroleum Hydrocarbons (EPH)	MAEPH	mg/kg													
C9-C18 Aliphatics			< 12.0	9.94 J	31.3	9.56 J	< 12.0	NT	< 12.0	NT	NT	NT	NT	NT	NT
C19-C36 Aliphatics			28.9	< 11.0	52.3	< 11.0	20.2	NT	< 12.0	NT	NT	NT	NT	NT	NT
C11-C22 Aromatics			171	20.5 J	123	< 22.0	< 24.0	NT	< 25.0	NT	NT	NT	NT	NT	NT
Total EPH			200	ND	207	ND	20.2	NT	ND	NT	NT	NT	NT	NT	NT
Polycyclic Aromatic Hydrocarbons (PAHs)	MAEPH	mg/kg													
Acenaphthylene			1.08	< 0.540	< 0.560	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Acenaphthylene			< 0.600	< 0.540	< 0.560	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Anthracene			2.31	< 0.540	0.669	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Benzo(a)anthracene			5.21	< 0.540	1.25	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Benzo(a)pyrene			6.25	< 0.540	2.08	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Benzo(b)fluoranthylene			6.03	< 0.540	2.06	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Benzo(g,h,i)perylene			3.64	0.630	2.45	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Benzo(k)fluoranthylene			4.60	< 0.540	1.74	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Chrysene			6.73	< 0.540	1.68	< 0.550	< 0.600	NT	0.527 J	NT	NT	NT	NT	NT	NT
Dibenz(a,h)anthracene			0.959	< 0.540	0.460 J	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Fluoranthylene			12.6	0.442 J	3.12	< 0.550	0.580 J	NT	0.837	NT	NT	NT	NT	NT	NT
Fluorene			1.63	< 0.540	< 0.560	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Indeno(1,2,3-cd)pyrene			4.01	< 0.540	2.08	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
2-Methylnaphthalene			< 0.600	< 0.540	< 0.560	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Naphthalene			0.505 J	< 0.540	< 0.560	< 0.550	< 0.600	NT	< 0.620	NT	NT	NT	NT	NT	NT
Phenanthrene			16.4	< 0.540	2.83	< 0.550	< 0.600	NT	0.500 J	NT	NT	NT	NT	NT	NT
Pyrene			10.2	0.449 J	2.85	< 0.550	0.566 J	NT	0.733	NT	NT	NT	NT	NT	NT
Total PAHs			81.65	0.63	22.81	ND	ND	NT	1.57	NT	NT	NT	NT	NT	NT
Polychlorinated Biphenyls (PCBs)															
Total PCBs	8082	mg/kg	ND	ND	ND	ND	ND	NT	ND	NT	NT	NT	NT	NT	NT

General Notes:

1. The laboratory analyses were performed by Accutest Laboratories.
2. In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
3. "<" = Analyte not detected at a concentration above the specified laboratory reporting limit.
4. ">" = Analyte detected at a concentration greater than the specified laboratory reporting limit.
5. mg/kg = milligrams per kilogram.
6. ND = Not detected above laboratory reporting limit. See the laboratory data reports for the detection limits.
7. µmhos/cm = micro-ohms per centimeter.
8. NT = Not tested.

Qualifying Notes:

B The analyte was found in the associated method blank.

J The reported result is below the laboratory reporting limit and is estimated.

Table 5-3

Chemical Testing Results - 95R Franklin Street Soil Samples

50 Tufts Street
Somerville, Massachusetts

		Sample Name:	045162-95RSUBSOIL	045162-95RFRANK-EASTSILT	045162-95RFRANK-EASTFILL	045162-95RFRANK-WESTSILT	045162-95RFRANK-WESTFILL	045162-95RFRANK-NORTH SILT	045162-95RFRANK-NORTH FILL	045162-95RFRANK-SOUTH SILT	045162-95RFRANK-SOUTH FILL	045162-95RBACK Soil 1	045162-95RBACK Soil-5-7	045162-95RFRONT Soil 1	045162-95RFRONT Soil-5-7
		Date Sampled:	12/5/07	12/14/07	12/14/07	12/14/07	12/14/07	12/11/2007	12/11/2007	12/11/2007	12/11/2007	1/8/2008	1/8/2008	1/9/2008	1/9/2008
Analyte	**Method**	**Units**													
Metals															
Arsenic	SW846 6010B	mg/kg	36.4	10.9	31.5	12.6	19.2	NT	19.3	NT	NT	NT	NT	NT	NT
Barium			517	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Cadmium			1.8	< 0.46	1.5	< 0.44	< 0.47	NT	0.53	NT	NT	NT	NT	NT	NT
Chromium			25.0	22.8	25.1	32.0	23.2	NT	17.0	NT	NT	NT	NT	NT	NT
Lead			3580	499	4870	44.2	874	NT	1890	NT	NT	NT	NT	NT	NT
Silver			1.2	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Selenium			4.1	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Mercury	SW846 7471A	mg/kg	5.2	0.26	3.0	0.039	0.71	NT	0.79	NT	NT	NT	NT	NT	NT
TCLP															
Tetrachloroethylene (PCE)	SW846 1311/8260	mg/L	0.0418 J	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Lead	SW846 1311		2.0	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Physical/Inorganic															
Cyanide Reactivity	SW846 CHAP7	mg/kg	< 1.8	< 1.8	< 1.9	< 1.8	< 1.9	NT	< 1.9	NT	NT	NT	NT	NT	NT
Ignitibility	SW846 1020	deg F	> 230	> 230	> 230	> 230	> 230	NT	> 230	NT	NT	NT	NT	NT	NT
pH	SW846 9045	pH units	NT	6.5	8.7	8.0	9.8	NT	7.7	NT	NT	NT	NT	NT	NT
Specific Conductivity	EPA 120.1 M	µmhos/cm	401	1220	2770	188	361	NT	382	NT	NT	NT	NT	NT	NT
Solids, Percent	EPA 160.3 M	%	81.1	85.4	81.0	84.1	80.3	82.2	78.5	82.1	83.3	79.5	80.7	82.0	77.7
Sulfide Reactivity	SW846 CHAP7	mg/kg	< 62	< 59	< 62	< 59	< 62	NT	< 64	NT	NT	NT	NT	NT	NT
Total Organic Carbon	SW846 9060M	mg/kg	203000	20300	219000	17100	159000	5730	84000	1560	351000	53000	< 1200	NT	6020

General Notes:

1. The laboratory analyses were performed by Accutest Laboratories.
2. In general, only analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
3. "<" = Analyte not detected at a concentration above the specified laboratory reporting limit.
4. ">" = Analyte detected at a concentration greater than the specified laboratory reporting limit.
5. mg/kg = milligrams per kilogram.
6. ND = Not detected above laboratory reporting limit. See the laboratory data reports for the detection limits.
7. µmhos/cm = micro-ohms per centimeter.
8. NT = Not tested.

Qualifying Notes:

B The analyte was found in the associated method blank.
J The reported result is below the laboratory reporting limit and is estimated.

Table 5-4

Chemical Testing Results - Subsurface Soil Vapor

50 Tufts Street
Somerville, Massachusetts

	Location Name:	MW106														MW107	
	Sample Name:	MW106		MW900		MW106		SG-MW106		MW106-SG		MW106-SG		MW106-SG		MW107	
	Sample Date:	1/18/2007		1/18/2007		4/10/2007		7/17/2007		10/9/2007		1/7/2008		4/14/2008		1/17/2007	
Analyte	**Method** Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 6.3	< 1.0	< 2.5	< 0.40	< 1.3	< 0.20	< 13	< 2.0	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.94 J	0.15 J
Chloroethane		< 2.6	< 1.0	< 1.1	< 0.40	< 0.53	< 0.20	< 5.3	< 2.0	4.2	1.6	< 0.53	< 0.20	< 0.53	< 0.20	5.5	2.1
Dichloroethane,1,1-		12	3	3.7	0.92	2.6	0.64	8.1 G	2.0 G	11	2.8	2.9	0.71	1.2	0.29	97.5	24.1
Dichloroethane,1,2-		< 4.0	< 1.0	< 1.6	< 0.40	< 0.81	< 0.20	< 8.1	< 2.0	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 4.0	< 1.0	< 1.6	< 0.40	< 0.79	< 0.20	< 7.9	< 2.0	1.7	0.44	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		204	51.5	58.7	14.8	20	5.1	153 G	38.6 G	280	70.7	39	9.8	15	3.7	70.6	17.8
Tetrachloroethylene (PCE)		47	6.9	16	2.4	14	2.1	203 G	30.0 G	162	23.9	28	4.1	22	3.3	0.95 J	0.14 J
Trans-1,2-Dichloroethylene		< 4.0	< 1.0	< 1.6	< 0.40	< 0.79	< 0.20	< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		520	95.3	170	31.2	70.4	12.9	406 G	74.5 G	802	147	169	31	71.5	13.1	4	0.74
Trichloroethane,1,1,2-		< 5.5	< 1.0	< 2.2	< 0.40	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 11	< 2.0	< 1.1	< 0.20
Trichloroethylene (TCE)		69.9	13	22	4.1	18	3.3	127 G	23.6 G	149	27.8	33	6.1	21	3.9	5.9	1.1
Vinyl chloride		< 2.6	< 1.0	< 1.0	< 0.40	< 0.51	< 0.20	< 5.1	< 2.0	1.7	0.68	< 0.51	< 0.20	< 0.51	< 0.20	4.1	1.6

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. $\mu g/m^3$ = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 5-4

Chemical Testing Results - Subsurface Soil Vapor

50 Tufts Street
Somerville, Massachusetts

	Location Name:	MW107 (continued)										MW108					
	Sample Name:	MW107		SG-MW107		MW107-SG		MW107-SG		MW107-SG		MW108		MW108		SG-MW108	
	Sample Date:	4/10/2007		7/17/2007		10/9/2007		1/7/2008		4/14/2008		1/17/2007		4/10/2007		7/17/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	0.94 J	0.15 J	0.58 J	0.092 J	5.7 G	0.91 G	0.63 J	0.10 J	0.62 J	0.098 J	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		7.9	3	0.71	0.27	< 0.53	< 0.20	9.0 G	3.4 G	1.0	0.38	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		123	30.3	12	2.9	2.3	0.58	45.3	11.2	40	9.9	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		0.63 J	0.16 J	< 0.79	< 0.20	< 0.79	< 0.20	0.52 J	0.13 J	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		107	27.1	5.2 G	1.3 G	1.1	0.27	23 G	5.8 G	27	6.7	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		4.2	0.62	15 G	2.2 G	0.95 J	0.14 J	< 1.4	< 0.20	5.4	0.79	94.9	14	75.9	11.2	90.9	13.4
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		4.4	0.81	4.1 G	0.76 G	1.3	0.24	1.8	0.33	4.5	0.82	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		4.1	0.76	17 G	3.2 G	2.8	0.53	2.4	0.44	4.2	0.79	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		5.9	2.3	< 0.51	< 0.20	< 0.51	< 0.20	3.6	1.4	0.69	0.27	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. µg/m^3 = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 5-4
Chemical Testing Results - Subsurface Soil Vapor
50 Tufts Street
Somerville, Massachusetts

	Location Name:	MW108 (continued)						MW109									
	Sample Name:	MW108-SG		MW108-SG		MW108-SG		MW109		MW109		MW109-SG		MW109-SG		MW109-SG	
	Sample Date:	10/9/2007		1/7/2008		4/14/2008		1/17/2007		4/10/2007		10/9/2007		1/7/2008		4/14/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 130	< 20	< 63	< 10	< 13	< 2.0	< 25	< 4.0	< 25	< 4.0
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 53	< 20	< 26	< 10	< 5.3	< 2.0	< 11	< 4.0	< 11	< 4.0
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 81	< 20	< 40	< 10	< 8.1	< 2.0	< 16	< 4.0	< 16	< 4.0
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 81	< 20	< 40	< 10	< 8.1	< 2.0	< 16	< 4.0	< 16	< 4.0
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 79	< 20	< 40	< 10	< 7.9	< 2.0	< 16	< 4.0	< 16	< 4.0
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 79	< 20	< 40	< 10	< 7.9	< 2.0	< 16	< 4.0	< 16	< 4.0
Tetrachloroethylene (PCE)		13	1.9	1.6	0.23	2.3	0.34	9020	1330	3950	582	18900	2780	3510 G	518 G	4850 G	715 G
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 79	< 20	< 40	< 10	< 7.9	< 2.0	< 16	< 4.0	< 16	< 4.0
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	573	105	322	59.1	354	64.9	87.8	16.1	113	20.7
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 110	< 20	< 55	< 10	< 11	< 2.0	< 22	< 4.0	< 22	< 4.0
Trichloroethylene (TCE)		2.4	0.44	< 1.1	< 0.20	< 1.1	< 0.20	< 110	< 20	31 J	5.7 J	32	5.9	< 21	< 4.0	19 J	3.6 J
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 51	< 20	< 26	< 10	< 5.1	< 2.0	< 10	< 4.0	< 10	< 4.0

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. μg/m^3 = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 5-4

Chemical Testing Results - Subsurface Soil Vapor

50 Tufts Street

Somerville, Massachusetts

	Location Name:	MW110		MW111												MW112	
	Sample Name:	MW110		MW111		MW111		SG-MW111		MW111-SG		MW111-SG		MW111-S9		MW112	
	Sample Date:	1/17/2007		1/17/2007		4/11/2007		7/17/2007		10/9/2007		1/7/2008		4/14/2008		1/17/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	< 1300	< 200	< 130	< 20	< 1300	< 200	< 7500	< 1200	< 130	< 20	< 25	< 4.0	0.69 J	0.11 J
Chloroethane		< 0.53	< 0.20	< 530	< 200	< 53	< 20	< 530	< 200	< 3200	< 1200	< 53	< 20	< 11	< 4.0	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	943	233	67.2 J	16.6 J	< 810	< 200	< 4900	< 1200	< 81	< 20	28	6.8	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 810	< 200	< 81	< 20	< 810	< 200	< 4900	< 1200	< 81	< 20	< 16	< 4.0	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 790	< 200	46.4 J	11.7 J	< 790	< 200	< 4800	< 1200	35 J	8.8 J	16	4.1	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	619 J	156 J	< 79	< 20	< 790	< 200	< 4800	< 1200	< 79	< 20	< 16	< 4.0	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	269000	39700	52600	7760	178000 G	26200 G	1360000	200000	83400	12300	49600	7310	2.8	0.41
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 790	< 200	< 79	< 20	< 790	< 200	< 4800	< 1200	< 79	< 20	< 16	< 4.0	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	4650	853	715	131	2770	507	12800	2350	519	95.1	497	91.1	< 1.1	< 0.20
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1100	< 200	< 110	< 20	< 1100	< 200	< 110	< 20	< 110	< 20	< 22	< 4.0	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	2600	484	466	86.7	1520	282	5590 J	1040 J	286	53.2	250	46.6	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 510	< 200	< 51	< 20	< 510	< 200	< 3100	< 1200	< 51	< 20	< 10	< 4.0	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. µg/m^3 = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 5-4

Chemical Testing Results - Subsurface Soil Vapor

50 Tufts Street
Somerville, Massachusetts

	Location Name:	MW112A												MW113			
	Sample Name:	MW112A		MW112A		SG-MW112A		MW112A-SG		MW112A-SG		MW112A-SG		MW113		MW113	
	Sample Date:	3/20/2007		4/11/2007		7/17/2007		10/9/2007		1/7/2008		4/14/2008		2/19/2007		4/10/2007	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 63	< 10	< 130	< 20	< 13	< 2.0	< 25	< 4.0	< 25	< 4.0	< 25	< 4.0	< 13	< 2.0	< 1.3	< 0.20
Chloroethane		< 26	< 10	< 53	< 20	< 5.3	< 2.0	< 11	< 4.0	< 11	< 4.0	< 11	< 4.0	< 5.3	< 2.0	< 0.53	< 0.20
Dichloroethane,1,1-		429	106	155	38.2	359 G	88.6 G	1150	284	2280 G	564 G	449	111	8.1	2	0.57 J	0.14 J
Dichloroethane,1,2-		< 40	< 10	< 81	< 20	< 8.1	< 2.0	< 16	< 4.0	< 16	< 4.0	< 16	< 4.0	< 8.1	< 2.0	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 40	< 10	< 79	< 20	< 7.9	< 2.0	40.8	10.3	360	90.9	38	9.6	< 7.9	< 2.0	< 0.79	< 0.20
Dichloroethylene,1,1-		821	207	318	80.3	777 G	196 G	2080	524	3400 G	857 G	476	120	21	5.2	< 0.79	< 0.20
Tetrachloroethylene (PCE)		6230	919	6240	920	8140	1200	11300	1660	17400	2570	6010 G	886 G	8.8 J	1.3 J	3.7	0.55
Trans-1,2-Dichloroethylene		< 40	< 10	< 79	< 20	< 7.9	< 2.0	< 16	< 4.0	< 16	< 4.0	< 16	< 4.0	< 7.9	< 2.0	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		85.1	15.6	66.0 J	12.1 J	139 G	25.5 G	262	48	467	85.6	44	8.1	11	2.0	< 1.1	< 0.20
Trichloroethane,1,1,2-		< 55	< 10	< 110	< 20	< 11	< 2.0	< 22	< 4.0	< 22	< 4.0	< 22	< 4.0	< 11	< 2.0	< 1.1	< 0.20
Trichloroethylene (TCE)		951	177	505	93.9	2030 G	377 G	3980	740	2930 G	546 G	1210	225	16	3	< 1.1	< 0.20
Vinyl chloride		< 26	< 10	< 51	< 20	< 5.1	< 2.0	< 10	< 4.0	24	9.5	< 10	< 4.0	< 5.1	< 2.0	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. $\mu g/m^3$ = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 5-4

Chemical Testing Results - Subsurface Soil Vapor

50 Tufts Street
Somerville, Massachusetts

	Location Name:	MW113 (continued)				MW114											
	Sample Name:	MW113-SG		MW113-SG		MW114		MW114		SG-MW114		MW114-SG		MW114-SG		MW114-S9	
	Sample Date:	1/8/2008		4/14/2008		2/19/2007		4/10/2007		7/17/2007		10/9/2007		1/7/2008		4/14/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.63 J	0.10 J	< 1.3	< 0.20	< 31	< 5.0	< 1.3	< 0.20	0.69 J	0.11 J	0.88 J	0.14 J	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 5.3	< 2.0	0.77	0.29	< 0.53	< 0.20	3.7	1.4	0.98	0.37	< 0.53	< 0.20
Dichloroethane,1,1-		1.5	0.37	3.0	0.73	< 8.1	< 2.0	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 8.1	< 2.0	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		3.8	0.56	6.0	0.89	< 14	< 2.0	12	1.7	17	2.5	40	5.9	13	1.9	17	2.5
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		1.3	0.24	3.3	0.61	< 11	< 2.0	< 1.1	< 0.20	0.76 J	0.14 J	2.3	0.43	0.52 J	0.095 J	< 1.1	< 0.20
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 11	< 2.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	4	0.75	0.86 J	0.16 J	1.5	0.27	7.5	1.4	1.8	0.33	2.0	0.37
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 5.1	< 2.0	0.36 J	0.14 J	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. µg/m^3 = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 5-4
Chemical Testing Results - Subsurface Soil Vapor
50 Tufts Street
Somerville, Massachusetts

	Location Name:	MW115														MW116	
	Sample Name:	MW115		MW115		MW115		SG-MW115R		MW115-SG		MW115R-SG		MW115R-S9		MW116	
	Sample Date:	2/19/2007		3/20/2007		4/10/2007		7/17/2007		10/16/2007		1/7/2008		4/14/2008		3/20/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 13	< 2.0	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	2.8	0.44	0.69 J	0.11 J	< 63	< 10
Chloroethane		< 5.3	< 2.0	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 26	< 10
Dichloroethane,1,1-		< 8.1	< 2.0	0.65 J	0.16 J	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	378	93.5
Dichloroethane,1,2-		< 8.1	< 2.0	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 40	< 10
Dichloroethylene, cis-1,2-		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	254	64
Dichloroethylene,1,1-		< 7.9	< 2.0	1.3	0.33	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	876	221
Tetrachloroethylene (PCE)		42	6.2	12	1.8	< 1.4	< 0.20	71.2	10.5	12	1.8	14	2	2.1	0.31	11100	1630
Trans-1,2-Dichloroethylene		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 40	< 10
Trichloroethane,1,1,1- (TCA)		< 11	< 2.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.60 J	0.11 J	< 1.1	< 0.20	192	35.2
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 55	< 10
Trichloroethylene (TCE)		15	2.7	< 1.1	< 0.20	< 1.1	< 0.20	0.75 J	0.14 J	1.0 J	0.19 J	2	0.38	< 1.1	< 0.20	2140	398
Vinyl chloride		< 5.1	< 2.0	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	89	34.8

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. µg/m^3 = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 5-4

Chemical Testing Results - Subsurface Soil Vapor

50 Tufts Street
Somerville, Massachusetts

	Location Name:	MW116 (continued)										MW117S					
	Sample Name:	MW116		SG-MW116		MW116-SG		MW116-SG		MW116-SG2		SG-MW117S		MW117S-SG		MW117S-SG	
	Sample Date:	4/11/2007		7/17/2007		10/9/2007		1/30/2008		4/14/2008		7/17/2007		10/9/2007		1/8/2008	
Analyte	Method Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 130	< 20	< 13	< 2.0	< 13	< 2.0	< 25	< 4.0	< 25	< 4.0	< 1.3	< 0.20	< 6.3	< 1.0	< 13	< 2.0
Chloroethane		< 53	< 20	28	10.6	91.8	34.8	< 11	< 4.0	< 11	< 4.0	< 0.53	< 0.20	< 2.6	< 1.0	< 5.3	< 2.0
Dichloroethane,1,1-		923	228	1490 G	367 G	2550	629	482 G	119 G	365	90.3	4.5	1.1	< 4.0	< 1.0	< 8.1	< 2.0
Dichloroethane,1,2-		< 81	< 20	5.7 J	1.4 J	< 8.1	< 2.0	< 16	< 4.0	< 16	< 4.0	< 0.81	< 0.20	< 4.0	< 1.0	< 8.1	< 2.0
Dichloroethylene, cis-1,2-		2620	661	1740 G	438 G	4480	1130	702 G	177 G	265	66.9	< 0.79	< 0.20	< 4.0	< 1.0	< 7.9	< 2.0
Dichloroethylene,1,1-		1570	395	634 G	160 G	436	110	813 G	205 G	619	156	< 0.79	< 0.20	< 4.0	< 1.0	< 7.9	< 2.0
Tetrachloroethylene (PCE)		21500 G	3170 G	25500 G	3760 G	9630	1420	6600 G	974 G	15700	2320	12	1.7	7.5	1.1	< 14	< 2.0
Trans-1,2-Dichloroethylene		< 79	< 20	151	38.1	84.8	21.4	< 16	< 4.0	< 16	< 4.0	< 0.79	< 0.20	< 4.0	< 1.0	< 7.9	< 2.0
Trichloroethane,1,1,1- (TCA)		492	90.2	1020 G	187 G	408	74.8	206	37.7	125	22.9	1.4	0.26	< 5.5	< 1.0	< 11	< 2.0
Trichloroethane,1,1,2-		< 110	< 20	< 11	< 2.0	< 11	< 2.0	< 22	< 4.0	< 22	< 4.0	< 1.1	< 0.20	< 5.5	< 1.0	< 11	< 2.0
Trichloroethylene (TCE)		6400	1190	2620 G	488 G	2250	419	1830 G	341 G	1820	338	4.2	0.78	< 5.4	< 1.0	< 11	< 2.0
Vinyl chloride		514	201	64.7	25.3	762	298	< 10	< 4.0	< 10	< 4.0	< 0.51	< 0.20	< 2.6	< 1.0	< 5.1	< 2.0

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. µg/m^3 = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:
- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.
- J+ The reported result is estimated.

Table 5-4

Chemical Testing Results - Subsurface Soil Vapor

50 Tufts Street
Somerville, Massachusetts

	Location Name:	MW117S		MW118S										MW119S			
	Sample Name:	MW117S-SG		SG-MW118S		SG-MW118S		MW118S-SG		MW118S-SG		MW118S-SG		SG-119S		MW119S-SG	
	Sample Date:	4/14/2008		7/17/2007		8/30/2007		10/9/2007		1/8/2008		4/14/2008		8/28/2007		10/16/2007	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	4.8	0.77	2.2	0.35	2.1	0.34	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	1.6	0.62	0.9	0.34
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	2.8	0.69	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	0.40 J	0.098 J	< 0.81	< 0.20	< 0.81	< 0.20	0.85	0.21	1.4	0.35
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	3	0.75	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		2.4	0.35	231	34.1	155	22.9	176	26	182	26.8	6.0	0.88	12	1.7	1.0 J	0.15 J
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	8.2	1.5	6	1.1	7.6	1.4	5.4	0.99	3.1	0.57	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	2.1	0.39	< 1.1	< 0.20	< 1.1	< 0.20	13	2.4	< 1.1	< 0.20	1.2	0.23	0.64 J	0.12 J
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	1.2	0.47	0.46 J	0.18 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. μg/m^3 = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 5-4

Chemical Testing Results - Subsurface Soil Vapor

50 Tufts Street
Somerville, Massachusetts

	Location Name:	**MW120S**								**MW121S**				**MW122**				**MW201**	
	Sample Name:	**SG-120S**		**MW120S-SG**		**SG-120S**		**MW120S-SG**		**MW121S-SG**		**MW121S-SG**		**MW122-SG**		**MW122-SG**		**MW201-SG**	
	Sample Date:	**8/28/2007**		**10/16/2007**		**8/28/2007**		**10/16/2007**		**10/22/2007**		**1/8/2008**		**1/30/2008**		**4/14/2008**		**10/19/2007**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**																		
Volatile Organic Compounds (VOCs)	TO-15																		
Carbon tetrachloride		0.62 J	0.098 J	< 1.3	< 0.20	0.62 J	0.098 J	< 1.3	< 0.20	< 1.3	< 0.20	0.82 J	0.13 J	< 25	< 4.0	< 6.3	< 1.0	< 1.3	< 0.20
Chloroethane		0.58	0.22	1	0.38	0.58	0.22	1	0.38	< 0.53	< 0.20	< 0.53	< 0.20	< 11	< 4.0	< 2.6	< 1.0	1.2	0.45
Dichloroethane,1,1-		51.8	12.8	48.2	11.9	51.8	12.8	48.2	11.9	2.1	0.52	< 0.81	< 0.20	11 J	2.8 J	5.3	1.3	3.1	0.76
Dichloroethane,1,2-		0.81	0.2	0.40 J	0.098 J	0.81	0.2	0.40 J	0.098 J	< 0.81	< 0.20	< 0.81	< 0.20	< 16	< 4.0	< 4.0	< 1.0	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	9.1 J	2.3 J	4.8	1.2	7.9	2
Dichloroethylene,1,1-		1.1	0.29	0.75 J	0.19 J	1.1	0.29	0.75 J	0.19 J	0.67 J	0.17 J	< 0.79	< 0.20	12 J	3.0 J	2.8 J	0.71 J	109	27.5
Tetrachloroethylene (PCE)		18	2.7	< 1.4	< 0.20	18	2.7	< 1.4	< 0.20	2	0.3	1.8	0.26	5320	784	1340	197	8000	1180
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 16	< 4.0	< 4.0	< 1.0	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		0.55 J	0.10 J	< 1.1	< 0.20	0.55 J	0.10 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 22	< 4.0	8.2	1.5	1520	278
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 22	< 4.0	< 5.5	< 1.0	< 1.1	< 0.20
Trichloroethylene (TCE)		4.8	0.9	0.86 J	0.16 J	4.8	0.9	0.86 J	0.16 J	< 1.1	< 0.20	< 1.1	< 0.20	69.3	12.9	35	6.6	1530	285
Vinyl chloride		0.51	0.2	0.74	0.29	0.51	0.2	0.74	0.29	1.8	0.72	< 0.51	< 0.20	< 10	< 4.0	< 2.6	< 1.0	0.79	0.31

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. µg/m^3 = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 5-4
Chemical Testing Results - Subsurface Soil Vapor
50 Tufts Street
Somerville, Massachusetts

	Location Name:	MW201 (continued)				MW202													
	Sample Name:	MW201-SG		MW201-SG		SVT-MW202S		MW202-SG		MW202-SG		SVT-MW202S		SVT-MW202S		SVT-MW202S		MW202-SG	
	Sample Date:	1/8/2008		4/14/2008		7/17/2007		10/19/2007		1/8/2008		1/16/2008		1/17/2008		1/21/2008		4/14/2008	
Analyte	Units: Method	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Volatile Organic Compounds (VOCs)	TO-15																		
Carbon tetrachloride		< 25	< 4.0	< 25	< 4.0	< 25	< 4.0	1.2 J	0.19 J	< 25 J+	< 4.0 J+	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 13	< 2.0
Chloroethane		< 11	< 4.0	< 11	< 4.0	< 11	< 4.0	2.3	0.88	< 11 J+	< 4.0 J+	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 5.3	< 2.0
Dichloroethane,1,1-		< 16	< 4.0	< 16	< 4.0	< 16	< 4.0	40	9.9	23 J+	5.8 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	3.6 J	0.89 J
Dichloroethane,1,2-		< 16	< 4.0	< 16	< 4.0	< 16	< 4.0	< 0.81	< 0.20	< 16 J+	< 4.0 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 8.1	< 2.0
Dichloroethylene, cis-1,2-		< 16	< 4.0	< 16	< 4.0	< 16	< 4.0	4.4	1.1	< 16 J+	< 4.0 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 7.9	< 2.0
Dichloroethylene,1,1-		59.9	15.1	39	9.9	11 J	2.8 J	326	82.3	468 J+	118 J+	0.79	0.2	0.48 J	0.12 J	0.56 J	0.14 J	103	26.1
Tetrachloroethylene (PCE)		5160 G	761 G	4830	713	2550	376	7460	1100	5390 G	795 G	252	37.1	366	54	403	59.4	2160	318
Trans-1,2-Dichloroethylene		< 16	< 4.0	< 16	< 4.0	< 16	< 4.0	0.87	0.22	< 16 J+	< 4.0 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 7.9	< 2.0
Trichloroethane,1,1,1- (TCA)		617	113	232	42.5	537	98.5	4340	796	2280 G	418 G	28	5.1	27	4.9	35	6.4	878	161
Trichloroethane,1,1,2-		< 22	< 4.0	< 22	< 4.0	< 22	< 4.0	1.6	0.3	< 22 J+	< 4.0 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 11	< 2.0
Trichloroethylene (TCE)		1300	241	656	122	253	47	393	73.2	575 J+	107 J+	11	2	11	2	15	2.7	123	22.8
Vinyl chloride		< 10	< 4.0	< 10	< 4.0	< 10	< 4.0	1.9	0.73	< 10 J+	< 4.0 J+	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 5.1	< 2.0

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/L = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
4. µg/m^3 = micrograms per cubic meter.
5. ppbv = parts per billion by volume.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 5-5
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	GEO-1							GEO-2					GEO-3							GEO-4				
		Sample Name:	GEO-1	GEO-1	GEO-1	GEO-1	MW800 (FD)	GEO1	GEO-1	GEO-2	GEO-2	GEO-2	GEO-2	GEO2	GEO-3	GEO-3	MW900 (FD)	GEO-3	MW900 (FD)	GEO-3	GEO3	GEO-4	GEO-4	GEO-4	GEO-4	GEO4
		Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19
		Sample Date:	8/16/04	5/23/06	10/5/06	1/17/07	1/17/07	4/12/07	4/15/08	8/16/04	5/23/06	10/5/06	1/17/07	4/12/07	8/16/04	5/24/06	5/24/06	10/4/06	10/4/06	1/16/07	4/13/07	8/16/04	5/24/06	10/4/06	1/16/07	4/16/07
		Collected By:	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI
Method	Analyte	Units																								
Volatile Organic Compounds (VOCs)																										
Acetone	8260	µg/l	< 400	< 5.0	< 5.0	< 5.0	< 5.0	9.7	< 5.0	487	< 5.0	< 5.0	< 25	< 5.0	< 1000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 2000	< 5.0	< 5.0	< 100	< 50
Benzene			< 20	< 0.50	< 0.50	< 0.50	< 0.50	0.27 J	< 0.50	< 5	< 0.50	< 0.50	< 2.5	< 0.50	< 50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 100	< 0.50	< 0.50	< 10	< 5.0
Bromodichloromethane			< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Bromoform			< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Bromomethane			< 40	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 10	< 2.0	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20
Butanone,2- (MEK)			< 200	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0	< 5.0	< 25	< 5.0	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1000	< 5.0	< 5.0	< 100	< 50
Butylbenzene, n-			< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0	< 5.0	< 25	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50
Carbon disulfide			< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	4.5 J	< 5.0	< 250	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 500	< 5.0	< 5.0	< 100	< 50
Carbon tetrachloride			< 20	3.6	1.4	2.3	2.3	5.4	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Chlorobenzene			< 20	0.76 J	0.86 J	0.76 J	0.84 J	0.77 J	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Chloroethane			< 40	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 10	< 2.0	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20
Chloroform			< 20	< 1.0	< 1.0	0.60 J	0.61 J	1.5	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	2.5	< 20	< 10
Chloromethane			< 40	< 2.0	3.7	< 2.0	1.8 J	6.2	< 2.0	< 10	< 2.0	< 2.0	< 10	< 2.0	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20
Dichlorobenzene,1,3-			< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Dichlorodifluoromethane			< 40	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 10	< 2.0	< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20
Dichloroethane,1,1-			< 20	4.3	2.9	5.4	5.6	10.6	< 1.0	< 5	2.2	2	< 5.0	2.5	< 50	< 1.0	< 1.0	11.6	11.6	2.6	< 1.0	< 100	2.7	7.1	< 20	< 10
Dichloroethane,1,2-			< 20	< 1.0	< 1.0	< 1.0	< 1.0	1.3	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Dichloroethylene, cis-1,2-			< 20	4.3	2.3	3.3	< 1.0	8.7	< 1.0	< 5	< 1.0	1.6	9	< 1.0	< 50	< 1.0	< 1.0	2.8	2.6	1.2	< 1.0	< 100	6.3	16.7	< 20	5.5 J
Dichloroethylene,1,1-			39.8	989	1330 E	247	241	8980	3.0	23.2	14.2	26.3	25.2	11.5	108	< 1.0	< 1.0	59.3	59.1	11.5	1.4	< 100	6.1	17.8	< 20	< 10
Dichloropropane,1,2-			< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 5	< 2.0	< 2.0	< 10	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 100	< 2.0	< 2.0	< 40	< 20
Dioxane,1,4-			NT	< 25	< 25 R	< 25	< 25	< 25	< 25	NT	< 25	< 25 R	< 130	< 25	NT	< 25	< 25	< 25 R	< 25 R	< 25 R	< 25	NT	< 25	< 25 R	< 500	< 250
Ethylbenzene			< 20	< 1.0	< 1.0	< 1.0	< 1.0	0.41 J	< 1.0	< 5	< 1.0	< 1.0	3.1 J	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Hexanone,2-			< 200	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 50	< 5.0	< 5.0	< 25	< 5.0	< 500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 1000	< 5.0	< 5.0	< 100	< 50
Isopropyl benzene			< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0	< 5.0	< 25	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50
Methyl tert-butyl ether			< 20	64.2	5.3 J+	2.5	2.7	6.9 J+	7.9	37.6	79.9	12.8 J+	9.8	16.5	< 50	< 1.0	< 1.0	1.2 J+	1.1 J+	< 1.0	< 1.0	< 100	< 1.0	1.5 J+	< 20	< 10
Methylene chloride			< 200	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 10	< 2.0	< 500	< 2.0	< 2.0	< 5.0	< 2.0	< 5.0	< 2.0	< 1000	< 2.0	< 2.0	< 40	< 20
Naphthalene			< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0	< 5.0	8.3 J	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50
Propylbenzene, n-			< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0	< 5.0	< 25	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50
Tertiary-amyl methyl ether			NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 10	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 40	< 20
Tetrachloroethane,1,1,1,2-			< 20	5.7	3.0 J	5.7	5.8	15.6	< 5.0	< 5	< 5.0	< 5.0	< 25	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	0.84 J	< 100	< 50
Tetrachloroethylene (PCE)			1880	18600	19500	17300	18000	48500	135	285	131	693	1420	120	4020	162	157	2720	2340	529	93.2	12900	6690	24100	16700	8240
Toluene			< 20	1.2	0.72 J	1.1	0.99 J	2.1	< 1.0	< 5	< 1.0	< 1.0	3.4 J	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Trans-1,2-Dichloroethylene			< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Trichloroethane,1,1,1- (TCA)			1720	19100	9620 J+	13300	14200	42500 J+	29.5	490	125	376	867	147 J+	204	4	4.4	78.2 J+	77.2 J+	16.2	< 1.0	1170	113	321 J+	113	70.9
Trichloroethane,1,1,2-			< 20	< 1.0	< 1.0	0.94 J	0.99 J	3.8	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Trichloroethylene (TCE)			898	10000	5530	9090	9660	30600	18.9	60	27.3	170	602	36	507	14.4	14.1	209	207	70.2	10	720	86.8	235	129	74.8
Trimethylbenzene, 1,2,4-			< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0	< 5.0	4.7 J	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50
Trimethylbenzene, 1,3,5-			< 20	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5	< 5.0	< 5.0	< 25	< 5.0	< 50	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 100	< 5.0	< 5.0	< 100	< 50
Vinyl chloride			< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Xylene, m,p-			< 40	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 10	< 1.0	< 1.0	11.2	< 1.0	< 100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 200	< 1.0	< 1.0	< 20	< 10
Xylene, o-			< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5	< 1.0	< 1.0	< 5.0	< 1.0	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Xylene, Total			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 20	< 10
Metals																										
Arsenic	6010	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 100	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Others																										
Methane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	104000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1310000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	7000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	7000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	88000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 100	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 1000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-5
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location:			GEO-5					GEO-6						
Sample Name:			GEO-5	GEO-5	GEO-5	GEO-5	GEO5	GEO-6	GEO-6	GEO-6	GEO-6	MW900 (FD)	GEO6	MW901 (FD)
Well Screen Interval (ft bgs):			5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
Sample Date:			8/16/04	5/24/06	10/4/06	1/16/07	4/16/07	8/16/04	5/24/06	10/4/06	1/16/07	1/16/07	4/16/07	4/16/07
Collected By:			GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI
Method	Analyte	Units												
Volatile Organic Compounds (VOCs)														
Acetone	8260	µg/l	< 2000	< 5.0	< 5.0	< 250	< 5.0	< 200	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Benzene			< 100	< 0.50	< 0.50	< 25	< 0.50	< 10	< 0.50	< 0.50	< 0.50	< 0.50	< 1.0	< 0.50
Bromodichloromethane			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Bromoform			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Bromomethane			< 200	< 2.0	< 2.0	< 100	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Butanone,2- (MEK)			< 1000	< 5.0	< 5.0	< 250	< 5.0	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Butylbenzene, n-			< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Carbon disulfide			< 500	< 5.0	< 5.0	< 250	< 5.0	< 50	< 5.0	< 5.0	0.81 J	< 5.0	< 10	< 5.0
Carbon tetrachloride			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chlorobenzene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chloroethane			< 200	< 2.0	< 2.0	< 100	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Chloroform			< 100	< 1.0	0.62 J	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chloromethane			< 200	< 2.0	< 2.0	< 100	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Dichlorobenzene,1,3-			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Dichlorodifluoromethane			< 200	< 2.0	< 2.0	< 100	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Dichloroethane,1,1-			< 100	3	9.7	< 50	< 1.0	< 10	2	4.4	1.7	1.6	0.92 J	1.1
Dichloroethane,1,2-			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Dichloroethylene, cis-1,2-			< 100	12.5	35.2	< 50	< 1.0	< 10	9.1	15.4	7.7	6.9	5.3	6.3
Dichloroethylene,1,1-			< 100	8.9	32.7	< 50	< 1.0	< 10	4.6	11	4.4	3.2	2.8	3.8
Dichloropropane,1,2-			< 100	< 2.0	< 2.0	< 100	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Dioxane,1,4-			NT	< 25	< 25 R	< 1300	< 25	NT	< 25	< 25 R	< 25	< 25	< 50	< 25
Ethylbenzene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Hexanone,2-			< 1000	< 5.0	< 5.0	< 250	< 5.0	< 100	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Isopropyl benzene			< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Methyl tert-butyl ether			< 100	1.3	3.3 J+	< 50	< 1.0	< 10	1.3	1.9 J+	1.2	1.2	0.80 J	0.81 J
Methylene chloride			< 1000	< 2.0	< 2.0	< 100	< 2.0	< 100	< 2.0	< 2.0	< 2.0	1.3 J	2.5 J	< 2.0
Naphthalene			< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Propylbenzene, n-			< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Tertiary-amyl methyl ether			NT	< 2.0	< 2.0	< 100	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Tetrachloroethane,1,1,1,2-			< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Tetrachloroethylene (PCE)			14400	2440	12900	254 F+	17.9	782	675	1980	632	594 F+	618	497
Toluene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Trans-1,2-Dichloroethylene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Trichloroethane,1,1,1- (TCA)			646	246	652	< 50	< 1.0	27.8	42.5	77.2 J+	33.7	25.3	21.2	26.8
Trichloroethane,1,1,2-			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Trichloroethylene (TCE)			404	146	446	< 50	< 1.0	122	78.8	131	75.3	56.5	55.5	70.5
Trimethylbenzene, 1,2,4-			< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Trimethylbenzene, 1,3,5-			< 100	< 5.0	< 5.0	< 250	< 5.0	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 10	< 5.0
Vinyl chloride			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Xylene, m,p-			< 200	< 1.0	< 1.0	< 50	< 1.0	< 20	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Xylene, o-			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Xylene, Total			ND	ND	ND	< 50	ND	ND	ND	ND	ND	ND	< 2.0	ND
Metals														
Arsenic	6010	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	< 10	< 10	NT	NT
Iron			NT	NT	NT	NT	NT	NT	NT	NT	< 100	< 100	NT	NT
Others														
Methane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	< 10	< 10	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	< 10	< 10	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	< 10	< 10	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	134000	133000	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	825000	825000	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	3500	3500	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	3500	3500	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	< 10	< 10	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	45800	45500	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	< 2000	< 2000	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	< 100	< 100	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	< 1000	< 1000	NT	NT

Sample Location:			MW-1					MW101					MW102	
Sample Name:			MW-1	MW-1	MW-1	MW-1	MW1	MW-101	MW101	MW101	MW101	MW900	MW-102	MW102
Well Screen Interval (ft bgs):			Unknown	Unknown	Unknown	Unknown	Unknown	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19	6 to 16	6 to 16
Sample Date:			7/1/02	8/9/04	5/23/06	1/17/07	4/17/07	5/24/06	10/5/06	1/17/07	4/13/07	4/13/07	5/24/06	10/5/06
Collected By:			SHA	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Method	Analyte	Units												
Volatile Organic Compounds (VOCs)														
Acetone	8260	µg/l	< 50000	< 40000	40	36.1	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene			< 5000	< 2000	2	< 0.50	< 250	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane			< 5000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			< 5000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			< 10000	< 4000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Butanone,2- (MEK)			< 50000	< 4000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene, n-			< 5000	< 2000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			< 50000	< 10000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			< 5000	< 2000	19	22.4	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			< 5000	< 2000	1.1	1.2	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 10000	< 4000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 7500	< 2000	3.7	1.6	< 500	1.8	< 1.0	< 1.0	< 1.0	1.8	< 1.0	< 1.0
Chloromethane			< 25000	< 4000	< 2.0	14.6	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorobenzene,1,3-			< 25000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			< 50000	< 4000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichloroethane,1,1-			< 7500	< 2000	59.8	59.9	< 500	< 1.0	< 1.0	< 1.0	< 1.0	1.6	< 1.0	0.88 J
Dichloroethane,1,2-			< 5000	< 2000	4	< 1.0	< 500	< 1.0	< 1.0	< 1.0	3.9 G	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 5000	< 2000	24.3	7.7	< 500	< 1.0	< 1.0	1.3	< 1.0	2.1 G	< 1.0	< 1.0
Dichloroethylene,1,1-			< 5000	< 2000	11500	1260	2290	8.7	21.1	14.1	< 1.0	4.6 G	6.3	50.2
Dichloropropane,1,2-			< 18000	< 2000	4.5	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dioxane,1,4-			NT	NT	< 25	< 25	< 13000	< 25	< 25 R	< 25	< 25	< 25	< 25	< 25 R
Ethylbenzene			< 5000	< 2000	2.8	4.4	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexanone,2-			< 50000	< 20000	< 5.0	< 5.0	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			< 5000	< 2000	< 5.0	0.84 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			< 10000	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.5 J+
Methylene chloride			< 50000	< 20000	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			< 50000	< 2000	< 5.0	2.4 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Propylbenzene, n-			< 5000	< 2000	0.42 J	1.8 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tertiary-amyl methyl ether			NT	NT	< 2.0	< 2.0	< 1000	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethane,1,1,1,2-			< 5000	< 2000	38.1	22.8	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethylene (PCE)			52000	24200	34400	74900	49600	163	171	192	94	90.7	200	898
Toluene			< 7500	< 2000	19.6	15.3	< 500	< 1.0	< 1.0	0.38 J	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene			< 7500	< 2000	< 1.0	< 1.0	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			290000	112000	255000	135000	151000	110	146	131	50.5 J+	43.0 J+	< 1.0	65.7 J+
Trichloroethane,1,1,2-			< 7500	< 2000	85.8	16.2	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			220000	128000	175000	120000	103000	50.5	30.2	38.4	47.2	45.7	15.6	89.1
Trimethylbenzene, 1,2,4-			< 25000	< 2000	1.3 J	4.2 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trimethylbenzene, 1,3,5-			< 25000	< 2000	1.3 J	4.8 J	< 2500	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			< 10000	< 2000	< 1.0	1.2	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, m,p-			< 5000	< 4000	4.8	5.9	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, o-			< 5000	< 2000	9.2	13.8	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, Total			ND	ND	14	19.7	< 500	ND	ND	ND	ND	ND	ND	ND
Metals														
Arsenic	6010	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Others														
Methane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:

1 Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-5
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW102 (continued)						MW103						MW104								MW105			
Sample Name:			MW-102	MW102	MW102	MW102	MW102	MW102	MW-103	MW103	MW103	MW-103	MW103	MW103	MW-104	MW104	MW104	MW104	MW104	MW104	MW104	MW104	MW-105	MW105	MW105	MW105
Well Screen Interval (ft bgs):			6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	5 to 15	5 to 15	6 to 16	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	19 to 29	19 to 29	19 to 29	19 to 29
Sample Date:			1/16/07	4/13/07	7/18/07	10/10/07	1/10/08	4/17/08	5/24/06	8/7/06	10/5/06	1/16/07	1/18/07	4/13/07	5/23/06	10/5/06	1/16/07	4/13/07	7/19/07	10/15/07	1/11/08	4/15/08	5/24/06	10/5/06	1/17/07	4/16/07
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Method	Analyte	Units																								
Volatile Organic Compounds (VOCs)																										
Acetone	8260	µg/l	< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	4.0 J	< 5.0	< 5.0	< 5.0	< 5.0
Benzene			< 0.50	< 0.50	NT	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 2.5	< 0.50	0.6	< 0.50	< 0.50	NT	0.43 J	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane			< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	0.31 J	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Butanone,2- (MEK)			< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene, n-			< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	0.37 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	2.7	10.3	6.1	4.7	6.9	5.6	2.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.65 J	0.62 J	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorobenzene,1,3-			< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	0.27 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichloroethane,1,1-			< 1.0	< 1.0	0.42 J	2.1	4.1	0.51 J	27.2	3.7	13	11.5	10.1	7.9	33	98.9	57.1	46.8	68.3	86.6	38.7	33.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethane,1,2-			< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	3	2.5	< 1.0	< 1.0	< 5.0	198	435	244	250	194	279	148	145	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			30	< 1.0	23.6	39.7	51.8	22.2 C+	13.4	2	6.5	4.3	4.3	8	3.3	9.4	2.9	10	2.6	4.5	1.7	1.8	< 1.0	< 1.0	< 1.0	< 1.0
Dichloropropane,1,2-			< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dioxane,1,4-			< 25	< 25	NT	< 50	< 25	< 25	< 25	< 25	< 25 R	< 25	< 25	< 130	< 25	< 25 R	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25 R	< 25	< 25
Ethylbenzene			< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexanone 2-			< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			2.7	< 1.0	NT	17.3	24.2	1.7 C+	< 1.0	< 1.0	0.65 J J+	< 1.0	< 1.0	< 5.0	< 1.0	10.0 J+	1	0.93 J J+	NT	7.2	1.1	0.72 J	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride			< 2.0	< 2.0	NT	4.3	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Propylbenzene, n-			< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tertiary-amyl methyl ether			< 2.0	< 2.0	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethane,1,1,1,2-			< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0 F+	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethylene (PCE)			692	20.3	524	685	606	438 C+	2600	592	1510	1200 F+	1250 F-	1510	60.4	160	29.3	39.6	31.2	49.3	12.1	22.4	7.8	0.69 J	0.67 J	< 1.0
Toluene			< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	2.2	9.3	6.2	3.6	2.5	4.1	3.5	2.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			32.6	< 1.0	26.3	69.8	121	21.9 C+	34	4.4	14.4 J+	17.6	21	< 5.0	21	138 J+	23.2	5.6 J+	28	89.8	12.5	10.8	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,2-			< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			57	2	46.1	61	65.3	35.6 C+	109	24	60.4	37	38	58.7	63.4	110	49.1	51.4	40.4	< 1.0	27	34.9	< 1.0	3.4	3.2	1.5
Trimethylbenzene, 1,2,4-			< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	0.34 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trimethylbenzene, 1,3,5-			< 5.0	< 5.0	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 25	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	23.7	36.4	47.4	40.4	38.2	68	26.4	29.9	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, m,p-			< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, o-			< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, Total			ND	ND	ND	< 2.0	ND	ND	ND	ND	ND	ND	ND	< 5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																										
Arsenic	6010	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 100	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Others																										
Methane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	53500	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	675000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	8900	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	8900	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	16	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	65700	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 100	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1700	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-5

Chemical Testing Results - Groundwater

50 Tufts Street

Somerville, Massachusetts

		Sample Location:	MW105				MW106						MW107						MW108						MW109	
		Sample Name:	MW105	MW105	MW105	MW105	MW106	MW106	MW106	MW106	MW106	MW106	MW107	MW107	MW107	MW107	MW107	MW107	MW108	MW108	MW108	MW108	MW108	MW108	MW109	MW109
		Well Screen Interval (ft bgs):	19 to 29	19 to 29	19 to 29	19 to 29	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19	9 to 19	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	2 to 12	3 to 13	3 to 13
		Sample Date:	7/19/07	10/10/07	1/9/08	4/18/08	1/18/07	4/13/07	7/19/07	10/10/07	1/10/08	4/17/08	1/18/07	4/13/07	7/18/07	10/10/07	1/10/08	4/17/08	1/18/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08	1/18/07	4/16/07
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Method	Analyte	Units																								
Volatile Organic Compounds (VOCs)																										
Acetone	8260	µg/l	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	69.9	< 5.0	9.2	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene			NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane			NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	0.75 J	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Butanone,2- (MEK)			NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	7.7	< 5.0	1.1 J	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene, n-			NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0 G	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0 G	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			NT	< 1.0	< 1.0	< 1.0	1.1	1.2	NT	0.56 J	0.39 J	1.7	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorobenzene,1,3-			NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichloroethane,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.6	4.3	0.52 J	< 1.0	2.1	3.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 1.0
Dichloroethane,1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	4.4	6.3	3.4	3.9	4.1	1.5	3.2	3.7	< 1.0	< 1.0	1.3 G	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloropropane,1,2-			NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dioxane,1,4-			NT	< 25	< 25	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexanone,2-			NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			NT	< 1.0	< 1.0	< 1.0	12.2	12.1	NT	252	78	4.9	< 1.0	< 1.0	NT	< 1.0	0.21 J	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	3.5	< 1.0
Methylene chloride			NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Propylbenzene, n-			NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tertiary-amyl methyl ether			NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	2.2	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethane 1,1,1,2-			NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethylene (PCE)			< 1.0	< 1.0	< 1.0	< 1.0	1.0 F-	1.2	2.3	1.7	2.3	0.44 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.60 J	< 1.0	< 1.0	178 F-	28.5
Toluene			NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	110	0.40 J	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1 1 1- (TCA)			< 1.0	< 1.0	< 1.0	< 1.0	15.3	1.5 J+	6.4	11.3	14.9	2.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.77 J	0.97 J
Trichloroethane,1,1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			1.5	1.6	2.2	1.7	3.7	4.8	3.6	4.4	4.9	1.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.5	< 1.0
Trimethylbenzene, 1,2,4-			NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trimethylbenzene, 1,3,5-			NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, m,p-			NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, o-			NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, Total			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																										
Arsenic	6010	µg/l	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT
Iron			NT	NT	NT	NT	319	NT	NT	NT	NT	NT	6160	NT	NT	NT	NT	NT	< 100	NT	NT	NT	NT	NT	NT	NT
Others																										
Methane	8015	µg/l	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	4.13 J	NT	NT	NT	NT	NT	0.18 J	NT	NT	NT	NT	NT	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	83100	NT	NT	NT	NT	NT	174000	NT	NT	NT	NT	NT	71100	NT	NT	NT	NT	NT	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	1870000	NT	NT	NT	NT	NT	100000	NT	NT	NT	NT	NT	235000	NT	NT	NT	NT	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	12900	NT	NT	NT	NT	NT	100	NT	NT	NT	NT	NT	< 100	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	12800	NT	NT	NT	NT	NT	< 110	NT	NT	NT	NT	NT	< 110	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	83	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	< 10	NT	NT	NT	NT	NT	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	86800	NT	NT	NT	NT	NT	33400	NT	NT	NT	NT	NT	28100	NT	NT	NT	NT	NT	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	< 2000	NT	NT	NT	NT	NT	< 2000	NT	NT	NT	NT	NT	< 2000	NT	NT	NT	NT	NT	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	< 100	NT	NT	NT	NT	NT	150	NT	NT	NT	NT	NT	< 100	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	1300	NT	NT	NT	NT	NT	12200	NT	NT	NT	NT	NT	1300	NT	NT	NT	NT	NT	NT	NT

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-5
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW109	MW110			MW111						MW112A						MW113							
Sample Name:			MW109	MW110	MW110	MW110	MW111	MW111	MW111	MW111	MW111	MW111	MW112A	MW112A	MW112A	MW112A	MW112A	MW112A	MW113	MW113	MW113	MW900 (FD)	MW113	MW900 (FD)	MW113	MW900 (FD)
Well Screen Interval (ft bgs):			3 to 13	3 to 13	3 to 13	3 to 13	4 to 14	4 to 14	4 to 14	4 to 14	4 to 14	4 to 14	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	10 to 20	10 to 20	10 to 20	10 to 20	10 to 20	10 to 20	10 to 20	10 to 20
Sample Date:			4/17/08	1/18/07	4/17/07	5/23/07	1/18/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08	3/23/07	4/16/07	7/18/07	10/10/07	1/10/08	4/17/08	2/20/07	4/12/07	7/18/07	7/18/07	10/10/07	10/10/07	1/11/08	1/11/08
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Method	Analyte	Units																								
Volatile Organic Compounds (VOCs)																										
Acetone	8260	µg/l	< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	3.8 J	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Benzene			< 0.50	< 0.50	< 0.50	NT	< 50	< 13	NT	< 25	< 0.50	< 1.0	< 0.50	< 0.50	NT	< 0.50	0.34 J	< 0.50	< 0.50	< 0.50	NT	NT	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			< 2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0
Butanone,2- (MEK)			< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene, n-			< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	0.66 J	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			0.28 J	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	NT	< 20	< 50	< 2.0	< 100	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	1.2	< 2.0	0.35 J	< 1.0	NT	< 1.0	0.32 J	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			< 2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorobenzene,1,3-			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			< 2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0
Dichloroethane,1,1-			< 1.0	< 1.0	< 1.0	NT	30.9	15.7 J	16.8	19.1 J	5.6	4.3 C+	27.6	24	6.4	35.6	114	40.9 C+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethane,1,2-			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	0.43 J	< 50	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	NT	22.6	17.2 J	56.3	63.9	10.6	4.4 C+	< 1.0	0.54 J	0.98 J	4.2	18.7	55.3 C+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	NT	17.6	< 25	10.5	< 50	4.1	3.7 C+	19.7	10.8	6.7	19.7	82.4	36.6 C+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloropropane,1,2-			< 2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0
Dioxane,1,4-			< 25	< 25	< 25	NT	< 250	< 630	NT	< 1300	< 25	< 50	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	NT	NT	< 25	< 25	< 25	< 25
Ethylbenzene			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Hexanone,2-			< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	0.45 J	< 2.0	10.8	13.8	NT	20.3	87	20.5 C+	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Methylene chloride			< 2.0	< 2.0	< 2.0	NT	< 20	31.4 J	NT	< 100	< 2.0	< 4.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Propylbenzene, n-			< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	1.2 J	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Tertiary-amyl methyl ether			< 2.0	< 2.0	< 2.0	NT	< 20	< 50	NT	< 100	< 2.0	< 4.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethane 1,1,1,2-			< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethylene (PCE)			17.4	0.89 J F-	0.93 J	NT	13700 F-	7370	6340	8350	3100	1160 C+	261	198	144	159	359	202 C+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.84 J	< 1.0	< 1.0
Toluene			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	0.54 J	< 1.0	NT	< 1.0	< 1.0	< 1.0	0.44 J	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	1.5	< 50	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			0.31 J	< 1.0	< 1.0	NT	142	56.5	89.1	84.1	41.3	17.6 C+	1.3	0.96 J	0.68 J	1.4	5.8	1.9 C+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,2-			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			0.52 J	< 1.0	< 1.0	NT	150	84.4	120	125	42.1	19.9 C+	34	36.1	26.7	61.3	142	72.8 C+	< 1.0	0.82 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trimethylbenzene, 1,2,4-			< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	0.45 J	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Trimethylbenzene, 1,3,5-			< 5.0	< 5.0	< 5.0	NT	< 50	< 130	NT	< 250	< 5.0	< 10	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	0.84 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, m,p-			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, o-			< 1.0	< 1.0	< 1.0	NT	< 10	< 25	NT	< 50	< 1.0	< 2.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, Total			ND	ND	ND	ND	< 10	< 25	ND	< 50	ND	< 2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																										
Arsenic	6010	µg/l	NT	2.9	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NT	84000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Others																										
Methane	8015	µg/l	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethane	8015	µg/l	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylene	8015	µg/l	NT	< 10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	122000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloride	E325.3	µg/l	NT	142000	NT	1010000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	< 50	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	2400	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	2300	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	54	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfate	E375.4	µg/l	NT	47700	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfide	E376.1	µg/l	NT	< 2000	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Surfactants	E425.1	µg/l	NT	< 100	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	5700	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

C+	The result has a high bias due to surrogate recovery above upper control limits.
E	The value exceeds the calibration range.
F+	The result has a high bias due to matrix spike recovery above upper control limits.
F-	The result has a low bias due to matrix spike recovery below lower control limits.
G	The result is estimated due to duplicate precision outside control limits.
J	The reported result is below the laboratory reporting limit and is estimated.
J+	The reported result is estimated.
R	The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-5
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	MW113 (continued)		MW114						MW115						MW116									MW117D
		Sample Name:	MW113	MW900 (FD)	MW114	MW114	MW114	MW114	MW114	MW114	MW115	MW115	MW115R	MW115	MW115	MW115R	MW116	MW116	MW116	MW901 (FD)	MW116	MW116	MW901	MW116	MW901 (FD)	MW117D
		Well Screen Interval (ft bgs):	10 to 20	10 to 20	7 to 17	7 to 17	7 to 17	7 to 17	7 to 17	7 to 17	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	60 to 70
		Sample Date:	4/15/08	4/15/08	2/20/07	4/13/07	7/18/07	10/10/07	1/11/08	4/17/08	3/23/07	4/13/07	7/18/07	10/10/07	1/9/08	4/17/08	3/23/07	4/16/07	7/18/07	7/18/07	10/12/07	1/11/08	1/11/08	4/15/08	4/15/08	7/19/07
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Method	Analyte	Units																								
Volatile Organic Compounds (VOCs)																										
Acetone	8260	µg/l	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	2.1 J	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10 J+	< 5.0	< 5.0 J+	< 5.0	< 5.0	NT
Benzene			< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	0.24 J	< 0.50	NT	NT	< 1.0	< 0.50	< 0.50	< 0.50	< 0.50	NT
Bromodichloromethane			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	1.1 J	< 1.0	< 1.0	< 1.0	< 1.0	NT
Bromoform			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	NT
Bromomethane			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	NT
Butanone,2- (MEK)			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10 J+	< 5.0	< 5.0 J+	< 5.0	< 5.0	NT
Butylbenzene, n-			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	NT
Carbon disulfide			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	NT
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	NT
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	2.4	2.3	2.4 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	NT
Chloromethane			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	NT
Dichlorobenzene,1,3-			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	NT
Dichlorodifluoromethane			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 4.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	NT
Dichloroethane,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	135	4.4	97.3	96.9	80.1	18.9	15.6	66.8	64.5	< 1.0
Dichloroethane,1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	0.23 J	0.20 J	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	103	21.7	415	431	346	49.5	42.9	105	102	< 1.0
Dichloroethylene,1,1-			0.43 J	0.33 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	107	2.7	33.8	34	24.8	14.7	11.8	46.3	45.7	< 1.0
Dichloropropane,1,2-			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	NT
Dioxane,1,4-			< 25	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	NT	< 25	< 25	< 25	< 25	< 25	NT	NT	< 50	< 25	< 25	< 25	< 25	NT
Ethylbenzene			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	NT
Hexanone,2-			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10 J+	< 5.0	< 5.0	< 5.0	< 5.0	NT
Isopropyl benzene			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10 J+	< 5.0	< 5.0	< 5.0	< 5.0	NT
Methyl tert-butyl ether			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	12.3	0.40 J	NT	NT	12.5	2.1 J+	1.3 J+	7.1	6.9	NT
Methylene chloride			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	NT
Naphthalene			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10	< 5.0	NT	< 5.0	< 5.0	NT
Propylbenzene, n-			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	NT
Tertiary-amyl methyl ether			< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	NT	NT	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	NT
Tetrachloroethane,1,1,1,2-			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10	< 5.0	< 5.0	< 5.0	< 5.0	NT
Tetrachloroethylene (PCE)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1180	32.2	167	168	116	267	257 J+	603	607	0.54 J
Toluene			< 1.0	< 1.0	0.34 J	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	NT
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 1.0	4.3	4.4	2.5	0.88 J	1.3	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	21.6	0.67 J	10.6	10.7	9.4	3.3	2.5	10.7	10.7	< 1.0
Trichloroethane,1,1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	358	19.4	72.7	73.2	136	66.3	53.6	175	174	< 1.0
Trimethylbenzene, 1,2,4-			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10	< 5.0	0.69 J	< 5.0	< 5.0	NT
Trimethylbenzene, 1,3,5-			< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	NT	NT	< 10	< 5.0	0.24 J	< 5.0	< 5.0	NT
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	14.1	3.2	185	182	84.9	3.1	2.3	2.6	2.7	< 1.0
Xylene, m,p-			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 2.0	< 1.0	1.2	< 1.0	< 1.0	NT
Xylene, o-			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	NT
Xylene, Total			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 2.0	ND	1.2	ND	ND	ND
Metals																										
Arsenic	6010	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Others																										
Methane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

C+	The result has a high bias due to surrogate recovery above upper control limits.
E	The value exceeds the calibration range.
F+	The result has a high bias due to matrix spike recovery above upper control limits.
F-	The result has a low bias due to matrix spike recovery below lower control limits.
G	The result is estimated due to duplicate precision outside control limits.
J	The reported result is below the laboratory reporting limit and is estimated.
J+	The reported result is estimated.
R	The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-5
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	MW117D (continued)			MW117S				MW117T			
		Sample Name:	MW117D	MW117D	MW117D	MW117S	MW117S	MW117S	MW117S	MW117T	MW117T	MW117T	MW117T
		Well Screen Interval (ft bgs):	60 to 70	60 to 70	60 to 70	5 to 20	5 to 20	5 to 20	5 to 20	35 to 45	35 to 45	35 to 45	35 to 45
		Sample Date:	10/11/07	1/15/08	4/16/08	7/18/07	10/15/07	1/11/08	4/16/08	7/19/07	10/11/07	1/15/08	4/16/08
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Method	Analyte	Units											
Volatile Organic Compounds (VOCs)													
Acetone	8260	µg/l	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Benzene			< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50
Bromodichloromethane			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Bromoform			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Bromomethane			< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0
Butanone,2- (MEK)			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Butylbenzene, n-			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Carbon disulfide			< 5.0	< 5.0	6.5	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Chloromethane			< 2.0	< 2.0	< 2.0 J+	NT	< 2.0	< 2.0	< 2.0 J+	NT	< 2.0	< 2.0	< 2.0 J+
Dichlorobenzene,1,3-			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			< 2.0	< 2.0	< 2.0 J+	NT	< 2.0	< 2.0	< 2.0 J+	NT	< 2.0	< 2.0	< 2.0 J+
Dichloroethane,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethane,1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloropropane,1,2-			< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0
Dioxane,1,4-			< 25	< 25	< 25	NT	< 25	< 25	< 25	NT	< 25	< 25	< 25
Ethylbenzene			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Hexanone,2-			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Isopropyl benzene			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			1.6	2.3	1.5	NT	< 1.0	< 1.0	< 1.0	NT	3.4	9.8	4.8
Methylene chloride			< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0
Naphthalene			< 5.0	4.9 J	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Propylbenzene, n-			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Tertiary-amyl methyl ether			< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0
Tetrachloroethane,1,1,1,2-			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Tetrachloroethylene (PCE)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene			0.98 J	< 1.0	0.34 J	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trimethylbenzene, 1,2,4-			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Trimethylbenzene, 1,3,5-			< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene m,p-			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Xylene o-			< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Xylene, Total			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals													
Arsenic	6010	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Others													
Methane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

		Sample Location:	MW118D					MW118S					MW118T		
		Sample Name:	MW118D	MW118D	MW118D	MW118D	MW118D	MW118S	MW118S	MW118S	MW118S	MW118S	MW118T	MW118T	MW118T
		Well Screen Interval (ft bgs):	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80	3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5
		Sample Date:	7/20/07	8/30/07	10/11/07	1/16/08	4/16/08	7/20/07	8/30/07	10/11/07	1/11/08	4/16/08	7/20/07	8/30/07	10/11/07
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Method	Analyte	Units													
Volatile Organic Compounds (VOCs)															
Acetone	8260	µg/l	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Benzene			NT	NT	< 0.50	0.24 J	< 0.50	NT	NT	< 0.50	< 0.50	< 0.50	NT	NT	< 0.50
Bromodichloromethane			NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0
Bromoform			NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0
Bromomethane			NT	NT	< 2.0	< 2.0	< 2.0 J+	NT	NT	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0
Butanone,2- (MEK)			NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Butylbenzene, n-			NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Carbon disulfide			NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0
Chloromethane			NT	NT	< 2.0	< 2.0	< 2.0 J+	NT	NT	< 2.0	< 2.0	< 2.0 J+	NT	NT	< 2.0
Dichlorobenzene,1,3-			NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0
Dichlorodifluoromethane			NT	NT	< 2.0	< 2.0	< 2.0 J+	NT	NT	< 2.0	< 2.0	< 2.0 J+	NT	NT	< 2.0
Dichloroethane,1,1-			20.3	21.4	31.2	31.7	33.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	35.4	34.4	44.2
Dichloroethane,1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			0.55 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	< 1.0
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloropropane,1,2-			NT	NT	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0
Dioxane,1,4-			NT	NT	< 25	< 25	< 25	NT	NT	< 25	< 25	< 25	NT	NT	< 25
Ethylbenzene			NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0
Hexanone,2-			NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Isopropyl benzene			NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Methyl tert-butyl ether			NT	NT	< 1.0	0.40 J	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	2.4
Methylene chloride			NT	NT	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0
Naphthalene			NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Propylbenzene, n-			NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Tertiary-amyl methyl ether			NT	NT	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	NT	NT	< 2.0
Tetrachloroethane,1,1,1,2-			NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Tetrachloroethylene (PCE)			7	8.4	8.2	6.1	5.7	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	3	3.8	2.2
Toluene			NT	NT	< 1.0	0.62 J	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			1.2	3.9	1.8	0.94 J	1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trimethylbenzene, 1,2,4-			NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Trimethylbenzene, 1,3,5-			NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0	< 5.0	< 5.0	NT	NT	< 5.0
Vinyl chloride			< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	< 1.0
Xylene m,p-			NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0
Xylene o-			NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0
Xylene, Total			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals															
Arsenic	6010	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Others															
Methane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-5
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW118T (continued)		MW119S				MW119T				MW120D				MW120S				MW121D			MW121S		
Sample Name:			MW118T	MW118T	MW119S	MW119S	MW119S	MW119S	MW119T	MW119T	MW119T	MW119T	MW120D	MW120D	MW120D	MW1120D	MW120S	MW120S	MW120S	MW1120S	MW121D	MW121D	MW121D	MW121S	MW121S	MW121S
Well Screen Interval (ft bgs):			39.5 to 49.5	39.5 to 49.5	5 to 20	5 to 20	5 to 20	5 to 20	42 to 47	42 to 47	42 to 47	42 to 47	28 to 38	28 to 38	28 to 38	28 to 38	5 to 20	5 to 20	5 to 20	5 to 20	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	5 to 20	5 to 20	5 to 20
Sample Date:			1/15/08	4/16/08	8/22/07	10/12/07	1/15/08	4/16/08	8/22/07	10/12/07	1/16/08	4/16/08	8/22/07	10/12/07	1/17/08	4/16/08	8/22/07	10/12/07	1/15/08	4/16/08	10/22/07	1/15/08	4/17/08	10/22/07	1/15/08	4/17/08
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Method	Analyte	Units																								
Volatile Organic Compounds (VOCs)																										
Acetone	8260	µg/l	< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Benzene			< 0.50	< 0.50	< 0.50 J+	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50
Bromodichloromethane			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromoform			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromomethane			< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Butanone,2- (MEK)			< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Butylbenzene, n-			< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon disulfide			< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.56 J J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Carbon tetrachloride			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.9 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloromethane			< 2.0	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0	< 2.0 J+	9.2 J+	< 2.0	< 2.0	< 2.0 J+	12.0 J+	< 2.0	< 2.0	< 2.0 J+	10.3 J+	< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichlorobenzene,1,3-			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichlorodifluoromethane			< 2.0	< 2.0 J+	< 2.0 J+	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dichloroethane,1,1-			42.3	42.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	10.4 J+	11	10.9	10.4	23.0 J+	26.0	23.2	30.8	1.1 J+	4.3	< 1.0	< 1.0	46.3	55.3	46.6	< 1.0	< 1.0	< 1.0
Dichloroethane,1,2-			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	0.54 J J+	1.2	1.1	1.2	0.70 J J+	< 1.0	1.7	1.9	< 1.0	< 1.0	< 1.0	< 1.0	3.9	11.8	6.4	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	2	6.4	6	6.2	15.6 J+	18.9	14.3	17.8	< 1.0	< 1.0	< 1.0	< 1.0	13.2	< 1.0	16.7	< 1.0	< 1.0	< 1.0
Dichloropropane 1,2-			< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Dioxane,1,4-			< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25 J+	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25	< 25
Ethylbenzene			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexanone,2-			< 5.0	< 5.0	< 5.0 J+	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Isopropyl benzene			< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Methyl tert-butyl ether			3.1	2.2	5.2 J+	2	2.1	0.83 J	4.1	0.66 J	0.64 J	0.50 J	6.8 J+	3.9	3.2	4.2	< 1.0	< 1.0	< 1.0	< 1.0	3	3.8	2.4	< 1.0	< 1.0	< 1.0
Methylene chloride			< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Naphthalene			< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.68 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.2	< 5.0
Propylbenzene, n-			< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tertiary-amyl methyl ether			< 2.0	< 2.0	< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Tetrachloroethane,1,1,1,2-			< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Tetrachloroethylene (PCE)			2.9	2.7	< 1.0 J+	< 1.0	< 1.0	< 1.0	94.3 J+	105	85	86.3	93.5 J+	120	113	131	< 1.0	< 1.0	0.97 J	< 1.0	182	258	177	< 1.0	< 1.0	< 1.0
Toluene			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.51 J	1.6	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.70 J	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane 1,1,1- (TCA)			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	0.69 J	0.52 J	< 1.0	10.3 J+	4.3	3.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	1.3	1.2	< 1.0	< 1.0	< 1.0
Trichloroethane 1,1,2-			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			0.31 J	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	25.9 J+	29.6	26.7	26.8	32.6	40.1	34.7	43.4	< 1.0	< 1.0	0.39 J	< 1.0	59.6	136	68.8	< 1.0	< 1.0	< 1.0
Trimethylbenzene, 1,2,4-			< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	0.56 J	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Trimethylbenzene, 1,3,5-			< 5.0	< 5.0	< 5.0 J+	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Vinyl chloride			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	0.35 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, m,p-			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, o-			< 1.0	< 1.0	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Xylene, Total			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Metals																										
Arsenic	6010	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Others																										
Methane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-5
Chemical Testing Results - Groundwater
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	MW122		MW201				MW202				MW203		MW-3						MW-CS1	SH-1	SH-3	SH-4	SH-MW1	
		Sample Name:	MW122	MW122	MW201	MW201	MW201	MW201	MW202	MW202	MW202	MW202	MW203	MW203	MW-3	MW-3	MW-3	MW-3	MW3	MW3	MWCS1	SH-1	SH-3	SH-4	SH-MW1	SH-MW-1
		Well Screen Interval (ft bgs):	4 to 16	4 to 16	11 to 21	11 to 21	11 to 21	11 to 21	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	6 to 18	6 to 18	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	Unknown	9 to 14	8 to 13	11 to 16	10 to 30	10 to 30
		Sample Date:	1/30/08	4/17/08	7/19/07	10/12/07	1/11/08	4/15/08	7/19/07	10/12/07	1/11/08	4/15/08	7/19/07	4/15/08	7/1/02	8/9/04	5/23/06	1/17/07	4/17/07	4/15/08	5/23/07	8/9/04	8/9/04	5/25/06	7/8/02	5/23/06
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	SHA	GeoInsight	GEI	GEI	GEI	GEI	GEI	GeoInsight	GeoInsight	GEI	SHA	GEI
Method	Analyte	Units																								
Volatile Organic Compounds (VOCs)																										
Acetone	8260	µg/l	< 5.0 J+	9.6 J	NT	< 5.0 J+	< 5.0	< 5.0	NT	< 5.0 J+	< 5.0	< 5.0	NT	< 250	< 2500	< 2000	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 4000	< 2000	30	< 2500	< 5.0
Benzene			< 0.50	< 1.0	NT	< 0.50	< 0.50	< 0.50	NT	< 0.50	< 0.50	< 0.50	NT	< 25	< 250	< 100	0.37 J	0.71	< 13	< 0.50	< 0.50	< 200	< 100	< 0.50	< 250	< 0.50
Bromodichloromethane			< 1.0	1.1 J	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0
Bromoform			< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0
Bromomethane			< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 100	< 500	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 400	< 200	< 2.0	< 500	< 2.0
Butanone,2- (MEK)			< 5.0 J+	< 10	NT	< 5.0 J+	< 5.0	< 5.0	NT	< 5.0 J+	< 5.0	< 5.0	NT	< 250	< 2500	< 1000	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 2000	< 1000	< 5.0	< 2500	< 5.0
Butylbenzene, n-			< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 250	< 250	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 200	< 100	< 5.0	< 250	< 5.0
Carbon disulfide			< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 250	< 2500	< 500	< 5.0	< 5.0	< 130	< 5.0	0.54 J	< 1000	< 500	< 5.0	< 2500	< 5.0
Carbon tetrachloride			< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0
Chlorobenzene			< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 50	< 250	< 100	< 1.0	0.52 J	< 25	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0
Chloroethane			< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 100	< 500	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 400	< 200	< 2.0	< 500	< 2.0
Chloroform			< 1.0	< 2.0	NT	0.47 J	0.40 J	0.24 J	NT	< 1.0	< 1.0	< 1.0	NT	< 50	< 380	< 100	2.1	3.4	< 25	< 1.0	< 1.0	< 200	< 100	13.3	< 380	2.1
Chloromethane			< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 100	< 1200	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 400	< 200	< 2.0	< 1200	< 2.0
Dichlorobenzene,1,3-			< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 50	< 1200	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	< 1.0	< 1200	< 1.0
Dichlorodifluoromethane			< 2.0	< 4.0	NT	< 2.0 J+	< 2.0	< 2.0	NT	< 2.0 J+	< 2.0	< 2.0	NT	< 100	< 2500	< 200	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 400	< 200	< 2.0	< 2500	< 2.0
Dichloroethane,1,1-			19.3	30.4 C+	< 1.0	0.66 J	< 1.0	0.23 J	0.50 J	< 1.0	< 1.0	0.46 J	22.2	13.0 J	< 380	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	15.9	< 380	11.4
Dichloroethane,1,2-			< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	103	< 250	< 1.0
Dichloroethylene, cis-1,2-			60.6	70.7 C+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	102	78.9	< 250	< 100	< 1.0	1.9	< 25	< 1.0	< 1.0	< 200	< 100	16.6	< 250	2.1
Dichloroethylene,1,1-			4.0	9.0 C+	4.7	4.9	5.2	3.0	1.1	< 1.0	< 1.0	2.9	76.4	36.6 J	< 250	< 100	6.9	5.6	< 25	< 1.0	< 1.0	< 200	< 100	556 E	< 250	11.7
Dichloropropane,1,2-			< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 100	< 880	< 100	< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 200	< 100	< 2.0	< 880	< 2.0
Dioxane,1,4-			< 25	< 50	NT	< 25	< 25	< 25	NT	< 25	< 25	< 25	NT	< 1300	NT	NT	< 25	< 25	< 630	< 25	< 25	NT	NT	57700	NT	< 25
Ethylbenzene			< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0
Hexanone,2-			< 5.0 J+	< 10	NT	< 5.0 J+	< 5.0	< 5.0	NT	< 5.0 J+	< 5.0	< 5.0	NT	< 250	< 2500	< 1000	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 2000	< 1000	5.3	NT	< 5.0
Isopropyl benzene			< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 250	< 250	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 200	< 100	< 5.0	< 250	< 5.0
Methyl tert-butyl ether			3.3	3.9 C+	NT	75.8	240	0.26 J	NT	< 1.0	< 1.0	1.2	NT	< 50	< 500	< 100	< 1.0	< 1.0	< 25	< 1.0	66.4	< 200	< 100	< 1.0	< 500	< 1.0
Methylene chloride			< 2.0	< 4.0	NT	< 2.0	< 2.0	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 100	< 2500	< 1000	< 2.0	< 2.0	71.5	< 2.0	< 2.0	< 2000	< 1000	12.2	< 2500	< 2.0
Naphthalene			< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 250	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 200	< 500	< 5.0	< 1200	< 5.0
Propylbenzene, n-			< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 250	< 250	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 200	< 100	< 5.0	< 250	< 5.0
Tertiary-amyl methyl ether			< 2.0	< 4.0	NT	4.6	17.7	< 2.0	NT	< 2.0	< 2.0	< 2.0	NT	< 100	NT	NT	< 2.0	< 2.0	< 50	< 2.0	< 2.0	NT	NT	1.9 J	NT	< 2.0
Tetrachloroethane,1,1,1,2-			< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 250	< 250	< 100	1.9 J	4.4 J	< 130	< 5.0	< 5.0	< 200	< 100	40.4	< 250	< 5.0
Tetrachloroethylene (PCE)			477	691 C+	5.1	19.6	25.8	18.0	17.2	14.6	21.8	55.6	15500	11500	16000	16200	22100	51900	6550	400	< 1.0	49700	19500	7240	21000	16200
Toluene			0.48 J	< 2.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 50	< 380	< 100	0.62 J	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	1.8	< 380	0.61 J
Trans-1,2-Dichloroethylene			0.87 J	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.2	< 50	< 380	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	< 1.0	< 380	< 1.0
Trichloroethane 1,1,1- (TCA)			1.4	3.4 C+	9.8	36.3	32.9	7.3	12.5	4.4	4.2	35.2	1710	988	< 250	< 100	39.1	68.7	11.1 J	< 1.0	< 1.0	1150	2070	7610	< 250	34.5
Trichloroethane 1,1,2-			< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.66 J	< 50	< 380	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	172	< 380	< 1.0
Trichloroethylene (TCE)			177	106 C+	4.5	7.2	8.2	6.4	2.2	1.5	1.6	6.9	979	618	< 250	< 100	86.6	247	13.8 J	1.9	< 1.0	906	1440	7580	< 500	141
Trimethylbenzene, 1,2,4-			< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 250	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0
Trimethylbenzene, 1,3,5-			< 5.0	< 10	NT	< 5.0	< 5.0	< 5.0	NT	< 5.0	< 5.0	< 5.0	NT	< 250	< 1200	< 100	< 5.0	< 5.0	< 130	< 5.0	< 5.0	< 200	< 100	< 5.0	< 1200	< 5.0
Vinyl chloride			0.32 J	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 50	< 500	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	< 1.0	< 500	< 1.0
Xylene, m,p-			< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 50	< 250	< 200	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 400	< 200	< 1.0	< 250	< 1.0
Xylene, o-			< 1.0	< 2.0	NT	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	NT	< 50	< 250	< 100	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 200	< 100	< 1.0	< 250	< 1.0
Xylene, Total			ND	< 2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	< 50	ND	ND	ND	ND	< 25	ND	ND	ND	ND	ND	ND	ND
Metals																										
Arsenic	6010	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Iron			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Others																										
Methane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	275000	NT	NT	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 50	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "<" = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:

C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-5

Chemical Testing Results - Groundwater

50 Tufts Street
Somerville, Massachusetts

Sample Location:			SH-MW1 (continued)			SH-MW2							SH-MW3						COBBLE_IR-1
Sample Name:			SH-MW-1	SH-MW1	SHMW1	SH-MW2	SH-MW2	SH-MW-2	SH-MW-2	SH-MW2	SHMW2	SH-MW2	SH-MW3	SH-MW-3	SH-MW-3	SH-MW3	SHMW3	SHMW3	COBBLE_IR-1
Well Screen Interval (ft bgs):			10 to 30	10 to 30	10 to 30	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 24	10 to 24	10 to 24	10 to 24	10 to 24	10 to 24	Unknown
Sample Date:			10/4/06	1/16/07	4/12/07	7/8/02	8/16/04	5/23/06	10/4/06	1/16/07	4/16/07	7/19/07	7/8/02	5/23/06	10/4/06	1/17/07	4/12/07	4/15/08	6/25/07
Collected By:			GEI	GEI	GEI	SHA	GeoInsight	GEI	GEI	GEI	GEI	GEI	SHA	GEI	GEI	GEI	GEI	GEI	GEI
Method	Analyte	Units																	
Volatile Organic Compounds (VOCs)																			
Acetone	8260	µg/l	< 5.0	< 5.0	< 5.0	< 250	< 2000	< 5.0	< 5.0	< 5.0	< 10	NT	< 2500	< 5.0	< 5.0	< 500	< 5.0	< 500	5.8
Benzene			0.61	< 0.50	0.33 J	< 25	< 100	< 0.50	< 0.50	< 0.50	< 1.0	NT	< 250	< 0.50	< 0.50	< 50	< 0.50	< 50	< 0.50
Bromodichloromethane			< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	0.32 J
Bromoform			< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0
Bromomethane			< 2.0	< 2.0	< 2.0	< 50	< 200	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 500	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0
Butanone,2- (MEK)			< 5.0	< 5.0	< 5.0	< 250	< 1000	< 5.0	< 5.0	< 5.0	< 10	NT	< 2500	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0
Butylbenzene, n-			< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 250	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0
Carbon disulfide			< 5.0	< 5.0	< 5.0	< 250	< 500	< 5.0	< 5.0	< 5.0	< 10	NT	< 2500	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0
Carbon tetrachloride			< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0
Chlorobenzene			0.52 J	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 50	< 200	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 500	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0
Chloroform			4.6	1.7	3.4	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 380	0.88 J	0.81 J	< 100	1.1	< 100	< 1.0
Chloromethane			< 2.0	< 2.0	< 2.0	< 120	< 200	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 1200	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0
Dichlorobenzene,1,3-			< 1.0	< 1.0	< 1.0	< 120	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 1200	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0
Dichlorodifluoromethane			< 2.0	< 2.0	< 2.0	< 250	< 200	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 2500	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0
Dichloroethane,1,1-			12	8.5	12.7	< 38	< 100	1	20.9	5.7	< 2.0	12.4	< 380	21.6	36.5	< 100	24.5	< 100	< 1.0
Dichloroethane,1,2-			< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0
Dichloroethylene, cis-1,2-			7.3	11.2	2.7	< 25	< 100	3.9	45.7	14.7	1.4 J	26.1	< 250	37.2	102	< 100	39.8	34.5 J	< 1.0
Dichloroethylene,1,1-			19.3	9	24.4	< 25	< 100	10.1	45	9.8	2.1	23.8	< 250	91	84.4	< 100	91.3	< 100	< 1.0
Dichloropropane,1,2-			< 2.0	< 2.0	< 2.0	< 88	< 100	< 2.0	< 2.0	< 2.0	< 4.0	NT	< 880	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0
Dioxane,1,4-			< 25 R	< 25	< 25	NT	NT	< 25	< 25 R	< 25	< 50	NT	NT	< 25	< 25 R	< 2500	< 25	< 2500	< 25
Ethylbenzene			< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	180	< 1.0	< 100	< 1.0
Hexanone,2-			< 5.0	< 5.0	< 5.0	NT	< 1000	< 5.0	< 5.0	< 5.0	< 10	NT	NT	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0
Isopropyl benzene			< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 250	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0
Methyl tert-butyl ether			0.71 J J+	< 1.0	0.74 J J+	< 50	< 100	< 1.0	8.7 J+	1.4	< 2.0	NT	< 500	5.1	8.2 J+	< 100	2.4 J+	< 100	< 1.0
Methylene chloride			< 2.0	< 2.0	< 2.0	< 250	< 1000	< 2.0	< 2.0	< 2.0	2.3 J	NT	< 2500	< 2.0	< 2.0	< 200	< 2.0	< 200	< 2.0
Naphthalene			< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 1200	< 5.0	< 5.0	392 J	< 5.0	< 500	< 5.0
Propylbenzene, n-			< 5.0	< 5.0	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 250	< 5.0	< 5.0	< 500	< 5.0	< 500	< 5.0
Tertiary-amyl methyl ether			< 2.0	< 2.0	< 2.0	NT	NT	< 2.0	< 2.0	< 2.0	< 4.0	NT	NT	< 2.0	< 2.0	< 200	< 2.0	< 200	< 5.0
Tetrachloroethane,1,1,1,2-			< 5.0	< 5.0 F+	< 5.0	< 25	< 100	< 5.0	< 5.0	< 5.0 F+	< 10	NT	< 250	< 5.0	< 5.0	< 500	< 5.0	< 500	NT
Tetrachloroethylene (PCE)			28300	31700 F+	48900	2000	7170	1730	7190	2880 F+	726	3320	26000	16900	28300	29700	34000	15200	< 10
Toluene			0.47 J	< 1.0	0.36 J	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 380	< 1.0	< 1.0	< 100	< 1.0	< 100	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 380	< 1.0	1.1	< 100	< 1.0	< 100	< 1.0
Trichloroethane,1,1,1- (TCA)			69.7 J+	31.4	27.9 J+	660	1550	158	1330	360	44.1	539	1200	989	1680	806	621 E J+	119	< 1.0
Trichloroethane,1,1,2-			< 1.0	< 1.0	< 1.0	< 38	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 380	< 1.0	< 1.0	< 100	< 1.0	< 100	< 5.0
Trichloroethylene (TCE)			317	141	159	190	572	92.8	486	171	26.5	354	870	482	1030	709	1030	306	< 5.0
Trimethylbenzene, 1,2,4-			< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 1200	< 5.0	< 5.0	306 J	< 5.0	< 500	< 5.0
Trimethylbenzene, 1,3,5-			< 5.0	< 5.0	< 5.0	< 120	< 100	< 5.0	< 5.0	< 5.0	< 10	NT	< 1200	< 5.0	< 5.0	70.2 J	< 5.0	< 500	< 1.0
Vinyl chloride			< 1.0	< 1.0	0.55 J	< 50	< 100	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 500	< 1.0	< 1.0	< 100	0.83 J	< 100	< 1.0
Xylene, m,p-			< 1.0	< 1.0	< 1.0	< 25	< 200	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	484	< 1.0	< 100	< 1.0
Xylene, o-			< 1.0	< 1.0	< 1.0	< 25	< 100	< 1.0	< 1.0	< 1.0	< 2.0	NT	< 250	< 1.0	< 1.0	< 100	< 1.0	< 100	NT
Xylene, Total			ND	ND	ND	ND	ND	ND	ND	ND	< 2.0	ND	ND	ND	ND	484	ND	< 100	NT
Metals																			
Arsenic	6010	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT
Iron			NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	255	NT	NT	NT
Others																			
Methane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT
Ethane	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT
Ethylene	8015	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 10	NT	NT	NT
Alkalinity	E310.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	208000	NT	NT	NT
Chloride	E325.3	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	362000	NT	NT	NT
Chlorine, Total Residual	E330.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Nitrate & Nitrite as N	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1900	NT	NT	NT
Nitrogen, Nitrate	E353.2	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	1900	NT	NT	NT
Nitrogen, Nitrite	E354.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	30	NT	NT	NT
Sulfate	E375.4	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	62600	NT	NT	NT
Sulfide	E376.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 2000	NT	NT	NT
Surfactants	E425.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 100	NT	NT	NT
Total Organic Carbon	E415.1	µg/l	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	< 1000	NT	NT	NT

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes refer to the laboratory data reports.
2. ft bgs = feet below ground surface.
3. µg/l = micrograms per liter.
4. "< " = The analyte was not detected at a concentration above the specified reporting limit.
5. SHA = Sanborn Head & Associates.
6. FD = Field Duplicate Sample.
7. NT = Not Tested.

Qualifying Notes:
C+ The result has a high bias due to surrogate recovery above upper control limits.
E The value exceeds the calibration range.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.
R The result is rejected due to gross exceedence of minimum response factor criteria.

Table 5-6

Chemical Testing Results - Storm Drain and Sanitary Sewer Water

50 Tufts Street
Somerville, Massachusetts

		Sample Location:	Sanitary Sewers			Storm Drains														
		Sample Name:	SMH 102	SMH 14	SMH 44	CAP CB	CB 1	CB 2	CB 19	CB 23	CB 25	CB 26/51	CB 28/54	CB 29	CB 33	CB 34	CB 36	CB 100	CB 101	CB 104
		Sample Date:	3/18/08	4/3/08	3/21/08	3/21/08	3/18/08	3/18/08	3/18/08	3/21/08	3/21/08	3/21/08	3/21/08	3/18/08	3/18/08	4/3/08	3/18/08	4/3/08	4/2/08	4/3/08
Analyte	**Method**	**Units**																		
Volatile Organic Compounds (VOCs)																				
Dichloroethane,1,1-	8260	µg/l	4.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	59.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	16.8	1.6	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethane,1,2-	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	50.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	21.2	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-	8260	µg/l	286	< 1.0	2.8	< 1.0	< 1.0	< 1.0	1030	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	182	10.8	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-	8260	µg/l	6.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	100	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	40.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)	8260	µg/l	279	< 1.0	87.4	< 1.0	< 1.0	< 1.0	5170	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2090	406	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	23.5	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.4	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)	8260	µg/l	55.3	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	491	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	381	39.8	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)	8260	µg/l	90.0	< 1.0	2.6	< 1.0	< 1.0	< 1.0	254	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	252	25.3	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	40.1	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	13.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/l = micrograms per liter.
3. "<" = The analyte was not detected at a concentration above the specified reporting limit.

Table 6-1
Chemical Testing Results - Indoor Air
50 Tufts Street Property
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	North Warehouse												North Office					
	Sample Name:	04516-50T-NW		04516-NW		045162-NW		04516-50T-NW		045162-50Tufts-NW		045162-50T-NW		04516-50T-NO		04516-NO		045162-NO	
	Sample Date:	5/1/07		5/14/07		6/28/07		8/28/07		10/4/07		12/7/07		5/1/07		5/14/07		6/28/07	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																		
Volatile Organic Compounds (VOCs)	TO-15																		
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	0.69 J	0.11 J	0.69 J	0.11 J	< 1.3	< 0.20	0.63 J	0.10 J	0.69 J	0.11 J	< 1.3	< 0.20	0.61 J	0.097 J
1,1-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		33	4.8	11	1.6	15 G	2.2 G	45	6.6	12	1.8	12	1.7	34	5.0	6.4	0.94	8.8 G	1.3 G
1,1,1-Trichloroethane (TCA)		2.6	0.48	< 1.1	< 0.20	0.60 J	0.11 J	4.0	0.73	< 1.1	< 0.20	< 1.1	< 0.20	3.0	0.55	< 1.1	< 0.20	0.87 J	0.16 J
Trichloroethylene (TCE)		4.1	0.76	< 1.1	< 0.20	< 1.1	< 0.20	2.8	0.53	< 1.1	< 0.20	< 1.1	< 0.20	5.4	1.0	< 1.1	< 0.20	0.70 J	0.13 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. Refer to Figure 4-3 for air sampling locations.
6. FD = field duplicate.

Qualifying Notes:

G The reported result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 6-1
Chemical Testing Results - Indoor Air
50 Tufts Street Property
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	North Office (continued)						South Office											
	Sample Name:	04516-50T-NO		045162-50Tufts-NO		045162-50T-NO		04516-50T-SO		04516-50T-SO		045162-SO		04516-50T-SO		045162-50Tufts-SO		045162-50T-SO	
	Sample Date:	8/28/07		10/4/07		12/7/07		5/1/07		5/14/07		6/28/07		8/28/07		10/4/07		12/7/07	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	Method																		
Volatile Organic Compounds (VOCs)	TO-15																		
Carbon tetrachloride		0.63 J	0.10 J	< 1.3	< 0.20	0.75 J	0.12 J	0.75 J	0.12 J	< 1.3	< 0.20	0.69 J	0.11 J	0.61 J	0.097 J	< 1.3	< 0.20	0.62 J	0.098 J
1,1-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		8.8	1.3	4.3	0.64	12	1.8	38	5.6	14	2.0	18 G	2.7 G	15	2.2	5.5	0.81	11	1.60
1,1,1-Trichloroethane (TCA)		0.93 J	0.17 J	< 1.1	< 0.20	< 1.1	< 0.20	1.9	0.34	< 1.1	< 0.20	0.55 J	0.10 J	1.4	0.25	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		0.91 J	0.17 J	< 1.1	< 0.20	< 1.1	< 0.20	3.4	0.64	< 1.1	< 0.20	0.81 J	0.15 J	1.4	0.26	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. Refer to Figure 4-3 for air sampling locations.
6. FD = field duplicate.

Qualifying Notes:

G The reported result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 6-1
Chemical Testing Results - Indoor Air
50 Tufts Street Property
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	North Central Warehouse												Garage					
	Sample Name:	04516-50T-NC		04516-50T-NC		045162-NC		04516-50T-NC		045162-50Tufts-NC		045162-50T-NC		04516-50T-GA		04516-50T-GA		045162-GA	
	Sample Date:	5/1/07		5/14/07		6/28/07		8/28/07		10/4/07		12/7/07		5/1/07		5/14/07		6/28/07	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																		
Volatile Organic Compounds (VOCs)	TO-15																		
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	0.60 J	0.096 J	0.59 J	0.093 J	< 1.3	< 0.20	0.63 J	0.10 J	0.75 J	0.12 J	< 1.3	< 0.20	0.69 J	0.11 J
1,1-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		47	7.0	30	4.4	16 G	2.3 G	69.2	10.2	5.5	0.81	10	1.5	50	7.3	26	3.9	22 G	3.2 G
1,1,1-Trichloroethane (TCA)		1.4	0.25	< 1.1	< 0.20	< 1.1	< 0.20	3.7	0.67	< 1.1	< 0.20	< 1.1	< 0.20	1.5	0.28	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		2.0	0.37	< 1.1	< 0.20	< 1.1	< 0.20	3.4	0.63	< 1.1	< 0.20	< 1.1	< 0.20	2.4	0.44	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. Refer to Figure 4-3 for air sampling locations.
6. FD = field duplicate.

Qualifying Notes:
G The reported result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 6-1
Chemical Testing Results - Indoor Air
50 Tufts Street Property
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Garage (continued)						South Central Warehouse											
	Sample Name:	04516-50T-GA		045162-50Tufts-GA		045162-50T-GA		04516-50T-SC		04516-50T-SC		045162-SC		04516-50T-SC		045162-50Tufts-SC1		045162-50Tufts-SC2	
	Sample Date:	8/28/07		10/4/07		12/707		5/1/07		5/14/07		6/28/07		8/28/07		10/4/07		010/4/07	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	Method																		
Volatile Organic Compounds (VOCs)	TO-15																		
Carbon tetrachloride		0.69 J	0.11 J	< 1.3	< 0.20	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20
1,1-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		79.3	11.7	6.2	0.91	10	1.5	43	6.4	23	3.4	18 G J+	2.6 G J+	66	9.7	6.0	0.88	5.9	0.87
1,1,1-Trichloroethane (TCA)		5.2	0.95	< 1.1	< 0.20	< 1.1	< 0.20	1.3	0.24	< 1.1	< 0.20	0.50 J	0.092 J	4.7	0.87	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		4.4	0.82	< 1.1	< 0.20	< 1.1	< 0.20	2.0	0.37	< 1.1	< 0.20	< 1.1	< 0.20	3.8	0.70	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. Refer to Figure 4-3 for air sampling locations.
6. FD = field duplicate.

Qualifying Notes:

G The reported result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 6-1
Chemical Testing Results - Indoor Air
50 Tufts Street Property
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	South Central Warehouse (continued)						IA (FD of South Central Warehouse)									
	Sample Name:	045162-50Tufts-SC3 (FD)		045162-50Tufts-SC4 (FD)		045162-50T-SC		04516-50T-IA		04516-50T-IA		045162-IA		04516-50T-IA		045162-50T-IA	
	Sample Date:	10/4/07		10/4/07		12/7/07		5/1/07		5/14/07		6/28/07		8/28/07		12/7/07	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.60 J	0.096 J	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20
1,1-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		5.7	0.84	5.4	0.80	11	1.6	8.1	1.2	6.8	1.0	10 G J+	1.5 G J+	63	9.3	10.0	1.5
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.2	0.22	< 1.1	< 0.20	< 1.1	< 0.20	4.4	0.81	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.6	0.29	< 1.1	< 0.20	< 1.1	< 0.20	3.6	0.67	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. Refer to Figure 4-3 for air sampling locations.
6. FD = field duplicate.

Qualifying Notes:

G The reported result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 6-2
Chemical Testing Results - Outdoor Air
50 Tufts Street Property
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	**North Parking Lot**													
	Sample Name:	**04516-50T-NP**		**04516-NP**		**045162-NP**		**04516-50T-NP**		**045162-50Tufts-NP**		**045162-50Tufts-NP2**		**045162-50T-NP**	
	Sample Date:	**5/1/07**		**5/14/07**		**6/28/07**		**8/28/07**		**10/4/07**		**10/4/07**		**12/7/07**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J
1,1-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		1.8	0.26	7.5	1.1	12 G	1.7 G	14	2.0	3.9	0.57	7.5	1.1	2.2	0.33
1,1,1-Trichloroethane (TCA)		0.38 J	0.070 J	0.98 J	0.18 J	2.0	0.36	2.0	0.36	0.50 J	0.091 J	1.2	0.22	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	1.6	0.3	1.6	0.29	< 1.1	< 0.20	0.75 J	0.14 J	< 1.1	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. Refer to Figure 4-3 for air sampling locations.

Qualifying Notes:
G The reported result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 6-2

Chemical Testing Results - Outdoor Air

50 Tufts Street Property

50 Tufts Street

Somerville, Massachusetts

	Sample Location:	South Parking Lot													
	Sample Name:	04516-50T-SP		04516-50T-SP		045162-SP		04516-50T-SP		045162-50Tufts-SP		045162-50Tufts-SPL		045162-50T-SP	
	Sample Date:	5/1/07		5/14/07		6/28/07		8/28/07		10/4/07		10/4/07		12/7/07	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	Method														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.69 J	0.11 J	0.63 J	0.10 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J
1,1-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		3.7	0.54	2.8	0.4	1.8 G	0.26 G	160	23.6	1.3 J	0.19 J	9.5	1.4	2.0	0.29
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	16	2.9	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	12	2.2	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. Refer to Figure 4-3 for air sampling locations.

Qualifying Notes:

G The reported result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 7-1

EPEM Evaluation Property Status

Residential and Commercial Properties
50 Tufts Street
Somerville, Massachusetts

Property Address:	Building Description	Pre Sub-Slab Indoor Air Sampling Conducted	Sub-Slab Soil Vapor Sampling Conducted	Indoor Air Evaluation Samples											Post-Mitigation Indoor Air Samples				Next Steps	Air Purifier Installed:
2 Alston Street	Multi-family residential	No	No																No Access	No
6 Alston Street	Multi-family residential	No	No																No Access	No
10 Alston Street[1]	Garage	No	No																None - Garage	No
12 Alston Street	Multi-family residential	No	Yes																Access Denied	No
16-20 Alston Street	Multi-family residential	No	Yes		08/10/07														EPEM Proposed	Yes
30-40 Alston Street	Commercial	Yes	Yes	02/14/07	11/01/07	02/12/08													RAO-P	No
142 Cross Street	Commercial	No	Yes		11/06/07														Indoor Air Sampling	No
74 Franklin Street	Multi-family residential	No	Yes		09/19/07	02/07/08													Indoor Air Sampling	No
76 Franklin Street	Single-family residential	No	Yes		11/05/07	02/11/08													Indoor Air Sampling	No
80 Franklin Street	Multi-family residential	No	Yes		09/17/07	01/31/08													Indoor Air Sampling	No
82 Franklin Street	Single-family residential	No	Yes		11/29/07	03/06/08													Indoor Air Sampling	No
86 Franklin Street	Multi-family residential	No	Yes		06/05/07	11/12/07	02/04/08												RAO-P	No
91-93 Franklin Street	Multi-family residential	Yes	Yes	02/14/07	02/14/07														EPEM Proposed	Yes
95 Franklin Street5	Single-family residential	No	Yes		06/07/07										06/07/07				EPEM Modifications Proposed	Yes
95R Franklin Street6	Single-family residential	No	Yes		04/18/07	06/05/07									08/23/07	11/15/07	12/23/07	12/28/07	RAO-P	Yes
97 Franklin Street	Single-family residential	No	Yes		09/29/07	02/21/08													Indoor Air Sampling	No
97R Franklin Street	Single-family residential	No	Yes		06/28/07	11/19/07	02/04/08												Indoor Air Sampling	No
99 Franklin Street	Multi-family residential	No	Yes		06/25/07	02/05/08													EPEM Proposed	No
152-154 Glen Street	Multi-family residential	No	Yes		11/01/07	02/11/08													Indoor Air Sampling	No
153-155 Glen Street	Multi-family residential	No	Yes		11/07/07	02/06/08													Indoor Air Sampling	No
156 Glen Street	Multi-family residential	No	Yes		05/15/07														Access Denied	No
159 Glen Street	Single-family residential	No	No																No Access	No
162-164 Glen Street	Multi-family residential	No	Yes		08/13/07														EPEM Proposed	Yes
163 Glen Street	Commercial	No	Yes		11/05/07	02/11/08													Indoor Air Sampling	No
166-168 Glen Street	Multi-family residential	No	Yes		09/07/07														EPEM Proposed	Yes
2 Hadley Court #2a	Multi-family residential	No	Yes		09/05/07	03/07/08													Indoor Air Sampling	No
2 Hadley Court #2b	Multi-family residential	No	Yes		09/10/07	02/18/08													Indoor Air Sampling	No
2 Hadley Court #2c	Multi-family residential	No	Yes		09/17/07	02/13/08													Indoor Air Sampling	No
9 Knowlton Street	Multi-family residential	No	Yes		05/21/07														EPEM Proposed/Access Denied	Yes
12-14 Knowlton Street	Multi-family residential	No	Yes		06/14/07	11/13/07													Indoor Air Sampling	No
13 Knowlton Street	Multi-family residential	No	Yes		08/28/07	11/07/07													EPEM Proposed	Yes
17 Knowlton Street	Multi-family residential	No	Yes		10/05/08														EPEM Proposed	Yes
19 Knowlton Street	Multi-family residential	No	Yes		07/25/07	12/06/07	02/15/08												Indoor Air Sampling	No
23 Knowlton Street	Multi-family residential	No	Yes		04/23/07	11/07/07	02/05/08												EPEM Proposed	No
27 Knowlton Street	Multi-family residential	No	Yes		05/02/07	03/07/08													Indoor Air Sampling	No
29 Knowlton Street	Multi-family residential	No	Yes		06/22/07	02/02/08													Indoor Air Sampling	No
31-33 Knowlton Street5	Multi-family residential	Yes	Yes	01/22/07	04/20/07										08/06/07	11/12/07	02/06/08		EPEM Installed	Yes
32 Knowlton Street	Multi-family residential	No	Yes																No Access	No
34 Knowlton Street1	Garage	No	No																None - Garage	No
35-37 Knowlton Street	Multi-family Rresidential	Yes	Yes	01/23/07															EPEM Proposed	Yes

General Notes:

1. Property contains non-commercial garage only. There is no living space.
2. EPEM = Exposure Path Elimination Measure.
3. RAO-P = Response Action Outcome-Partial.
4. Shading indicates VOCs were not detected at a concentration above the specified laboratory reporting limit.
   If more than one sample was collected on the same day, the highest detected concentrations were used in shading.
5. EPEM Installed is a Sub-slab Depressurization System.
6. EPEM Installed includes a Vapor Barrier and Ventilation System.

Table 7-1
EPEM Evaluation Property Status
Residential and Commercial Properties
50 Tufts Street
Somerville, Massachusetts

Property Address:	Building Description	Pre Sub-Slab Indoor Air Sampling Conducted	Sub-Slab Soil Vapor Sampling Conducted	Indoor Air Evaluation Samples											Post-Mitigation Indoor Air Samples				Next Steps	Air Purifier Installed:
4 Morton Street	Multi-family residential	No	Yes																EPEM Proposed	Yes
6-8 Morton Street	Multi-family residential	No	Yes		06/18/07	11/07/07	02/07/08												Indoor Air Sampling	No
7 Morton Street	Multi-family residential	No	Yes		06/20/07	11/13/07	02/20/08												Indoor Air Sampling	No
10 Morton Street	Single-family residential	No	Yes		08/10/07	11/12/07	02/21/08												EPEM Proposed	No
11 Morton Street	Multi-family residential	No	Yes		06/05/07														EPEM Proposed	Yes
12 Morton Street[6]	Multi-family residential	No	Yes												03/05/08	03/21/08			RAO-P	Yes
13 Morton Street	Multi-family residential	No	Yes																EPEM Proposed/Need Translator	Yes
15 Morton Street	Multi-family residential	No	Yes		02/27/08														Indoor Air Sampling	No
18 Morton Street[5]	Multi-family residential	No	Yes												07/24/07	11/05/07	02/04/08		EPEM Installed	Yes
19-19A Morton Street	Multi-family residential	No	Yes		07/02/07	04/04/08													Indoor Air Sampling	No
21 Morton Street	Multi-family residential	No	Yes		05/15/07														No Access	No
9 Tufts Street	Multi-family residential	No	No		02/23/05	03/23/06	06/29/06	07/24/06	10/02/06	12/15/06									EPEM Proposed/Access Denied	Yes
11-13 Tufts Street	Multi-family residential	No	No		02/23/05	03/24/06	06/29/06	09/28/06	12/15/06										EPEM Proposed/Access Denied	Yes
17 Tufts Street	Multi-family residential	No	No		03/24/05	03/24/06	10/02/06	12/18/06											EPEM Proposed/Access Denied	Yes
19 Tufts Street	Multi-family residential	No	No		03/24/05	03/23/06	06/29/06	10/10/06	12/15/06										EPEM Proposed	No
23 Tufts Street[5]	Multi-family residential	No	No		02/23/05	03/24/06	06/28/06	08/03/06	10/02/06	12/18/06	05/26/07	11/17/07	02/01/08						EPEM Installed	Yes
25 Tufts Street	Multi-family residential	No	No		02/23/05	03/23/06	08/01/06	10/02/06	12/15/06										EPEM Proposed/Access Denied	Yes
27 Tufts Street	Multi-family residential	Yes	Yes	02/23/05	03/23/06	06/28/06	08/03/06	09/28/06	12/18/06										EPEM Proposed	Yes
45-47 Tufts Street	Multi-family residential	No	No																No Access	No
49 Tufts Street	Single-family residential	No	Yes		09/06/07														EPEM Proposed/Access Denied	Yes
51-51a Tufts Street	Multi-family residential	No	No																No Access	No
53 Tufts Street	Multi-family residential	No	Yes		11/09/07	02/15/08													Indoor Air Sampling	No
60 Tufts Street	Multi-family residential	No	Yes	(see Units 4, 10 & 16)															EPEM Proposed	No
60 Tufts Street, #4	Multi-family residential	Yes	Yes	01/23/07	02/20/08														EPEM Proposed	Yes
60 Tufts Street, #10	Multi-family residential	No	Yes		03/06/08														EPEM Proposed	No
60 Tufts Street, #16	Multi-family residential	No	Yes		03/06/08														EPEM Proposed	No
85 Washington Street	Commercial	No	Yes		11/14/07	02/12/08													Indoor Air Sampling	No
91 Washington Street	Commercial	No	No																No Access	No
97 Washington Street	Commercial	No	Yes		06/14/07	11/05/07	02/05/08												Indoor Air Sampling	No
103 Washington Street[5]	Commercial	No	Yes																EPEM Installed	No
105-107 Washington Street	Multi-family residential	No	Yes																EPEM Proposed	Yes
111 Washington Street	Multi-family residential	No	Yes																EPEM Proposed	Yes
113 Washington Street	Commercial	No	No																No Access	No
117 Washington Street	Multi-family residential	No	No																No Access	No
121 Washington Street	Commercial	No	Yes		11/06/07	02/11/08													Indoor Air Sampling	No

General Notes:

1. Property contains non-commercial garage only. There is no living space.
2. EPEM = Exposure Path Elimination Measure.
3. RAO-P = Response Action Outcome-Partial.
4. Shading indicates VOCs were not detected at a concentration above the specified laboratory reporting limit.
   If more than one sample was collected on the same day, the highest detected concentrations were used in shading.
5. EPEM Installed is a Sub-slab Depressurization System.
6. EPEM Installed includes a Vapor Barrier and Ventilation System.

Table 7-2a
Chemical Testing Results - Indoor Air
12 Alston Street
Somerville, Massachusetts

12 Alston Street - No Indoor Air Sampling

Table 7-2b
Chemical Testing Results - Sub-Slab Soil Vapor
12 Alston Street
Somerville, Massachusetts

	Sample Location:	12 Alston Street			
	Sample Name:	12Alst-SS1		12Alst-SS2	
	Sample Date:	4/19/2007		4/19/2007	
	Units:	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		54	7.9	27	4.0

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-3a
Chemical Testing Results - Indoor Air
16-20 Alston Street
Somerville, Massachusetts

	Sample Location:	16-20 Alston Street			
	Sample Name:	20ALST-1		20ALST-B	
	Sample Date:	8/10/2007		8/10/2007	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.61 J	0.097 J	0.82 J	0.13 J
Tetrachloroethylene (PCE)		0.95 J	0.14 J	1.6	0.23
1,1,1-Trichloroethane (TCA)		4.8	0.88	0.60 J	0.11 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-3b

Chemical Testing Results - Sub-Slab Soil Vapor

16-20 Alston Street
Somerville, Massachusetts

	Sample Location:	**16-20 Alston Street**	
	Sample Name:	**20AL-SS1**	
	Sample Date:	**6/26/2007**	
	Units:	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		72.6	10.7
1,1,1-Trichloroethane (TCA)		5.1	0.93

General Notes

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-4a
Chemical Testing Results - Indoor Air
30-40 Alston Street
Somerville, Massachusetts

	Sample Location:	30-40 Alston Street					
	Sample Name:	32 Alston-1		40 Alston-1		40ALST-COST	
	Sample Date:	2/14/07		2/14/07		11/1/07	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.62J	0.099 J
Tetrachloroethylene (PCE)		7.5	1.1	4.3	0.63	1.3 J	0.19 J
Trichloroethylene (TCE)		0.70 J	0.13 J	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-4a
Chemical Testing Results - Indoor Air
30-40 Alston Street
Somerville, Massachusetts

	Sample Location:	**30-40 Alston Street (continued)**					
	Sample Name:	**40ALST-FLAG**		**30ALST-COST**		**30ALST-FLAG**	
	Sample Date:	**11/1/07**		**2/12/08**		**2/12/08**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		0.69 J	0.11 J	0.58 J	0.092 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	18	2.7	4.3	0.63
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-4b

Chemical Testing Results - Sub-Slab Soil Vapor

30-40 Alston Street
Somerville, Massachusetts

	Sample Location:	30-40 Alston Street					
	Sample Name:	40 ALSTON-SS1		40 ALSTON-SS2		40 ALSTON-SS3	
	Sample Date:	3/8/2007		3/8/2007		3/8/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Tetrachloroethylene (PCE)		2.8	0.42	< 1.4	< 0.20	2.4	0.36
1,1,1-Trichloroethane (TCA)		2.3	0.42	25	4.5	19	3.5

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-4b

Chemical Testing Results - Sub-Slab Soil Vapor

30-40 Alston Street

Somerville, Massachusetts

	Sample Location:	**30-40 Alston Street (continued)**					
	Sample Name:	**40 ALSTON-SS4**		**30 ALSTON-SS5**		**30 ALSTON-SS6**	
	Sample Date:	**3/8/2007**		**3/8/2007**		**3/8/2007**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Tetrachloroethylene (PCE)		9.5	1.4	5.0	0.74	1.7	0.25
1,1,1-Trichloroethane (TCA)		1.4	0.25	0.93 J	0.17 J	1.0 J	0.19 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-5a
Chemical Testing Results - Indoor Air
142 Cross Street
Somerville, Massachusetts

142 Cross Street - all analytes non-detect 11/6/2007

Table 7-5b
Chemical Testing Results - Sub-Slab Soil Vapor
142 Cross Street
Somerville, Massachusetts

	Sample Location:	142 Cross Street			
	Sample Name:	142 Cro-SS1		142 Cro-SS2	
	Sample Date:	4/18/07		4/18/07	
	Units:	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.69 J	0.11 J	< 1.3	< 0.20
1,1,1-Trichloroethane (TCA)		1.2	0.22	1.7	0.32
Tetrachloroethylene (PCE)		6.4	0.95	3.5	0.52

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-6a
Chemical Testing Results - Indoor Air
74 Franklin Street
Somerville, Massachusetts

	Sample Location:	**74 Franklin Street**							
	Sample Name:	**74FRAN-1**		**74FRAN-B**		**74FRAN-1**		**74FRAN-B**	
	Sample Date:	**9/19/2007**		**9/19/2007**		**2/7/2008**		**2/7/2008**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.58 J	0.092 J	< 1.3	< 0.20	0.63 J	0.10 J	0.60 J	0.096 J
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	0.49 J	0.12 J	< 0.81	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-6b
Chemical Testing Results - Sub-Slab Soil Vapor
74 Franklin Street
Somerville, Massachusetts

	Sample Location:	**74 Franklin Street**	
	Sample Name:	**74FRANK-SS1**	
	Sample Date:	**7/2/2007**	
	Units:	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		2.8	0.41
1,1,1-Trichloroethane (TCA)		0.60 J	0.11 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-7a
Chemical Testing Results - Indoor Air
76 Franklin Street
Somerville, Massachusetts

	Sample Location:	**76 Franklin Street**							
	Sample Name:	**045162-76FRAN-1**		**045162-76FRAN-B**		**045162-76FRAN-1**		**045162-76FRAN-B**	
	Sample Date:	**11/5/2007**		**11/5/2007**		**2/11/2008**		**2/11/2008**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.62 J	0.099 J	< 1.3	< 0.20	0.62 J	0.98 J	0.63 J, J+	0.10 J, J+
Tetrachloroethylene (PCE)		1.4	0.2	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4 J+	< 0.20 J+

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The report result is estimated.

Table 7-7b

Chemical Testing Results - Sub-Slab Soil Vapor

76 Franklin Street
Somerville, Massachusetts

	Sample Location:	76 Franklin Street	
	Sample Name:	76 Fran-SS1	
	Sample Date:	4/3/07	
	Units:	$\mu g/m^3$	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		5.2	0.76
1,1,1-Trichloroethane (TCA)		0.82 J	0.15 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-8a
Chemical Testing Results - Indoor Air
80 Franklin Street
Somerville, Massachusetts

	Sample Location:	80 Franklin Street							
	Sample Name:	80FRAN-1		80FRAN-B		80FRANK-1		80FRANK-B	
	Sample Date:	9/17/2007		9/17/2007		1/31/2008		1/31/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.59 J	0.093 J	0.57 J	0.091 J	< 1.3	< 0.20	< 1.3	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-8b

Chemical Testing Results - Sub-Slab Soil Vapor

80 Franklin Street

Somerville, Massachusetts

	Sample Location:	**80 Franklin Street**	
	Sample Name:	**80FRANK-SS1**	
	Sample Date:	**6/20/2007**	
	Units:	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		1.7	0.25

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-9a
Chemical Testing Results - Indoor Air
82 Franklin Street
Somerville, Massachusetts

	Sample Location:	82 Franklin Street							
	Sample Name:	82FRAN-B		82FRAN-1		82FRANK-B		82FRANK-1	
	Sample Date:	11/29/2007		11/29/2007		3/6/2008		3/6/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
1,2-Dichloroethane		2.6	0.64	2.6	0.64	2.7	0.67	4.5	1.1

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-9b

Chemical Testing Results - Sub-Slab Soil Vapor

82 Franklin Street

Somerville, Massachusetts

	Sample Location:	**82 Franklin Street**			
	Sample Name:	**82 FRANK-SS1**		**82 FRANK-SS2**	
	Sample Date:	**3/26/2007**		**3/26/2007**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.60 J	0.096 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)		1.2 J	0.17 J	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-10a
Chemical Testing Results - Indoor Air
86 Franklin Street
Somerville, Massachusetts

	Sample Location:	86 Franklin Street									
	Sample Name:	86 FRAN-1		86FRANK-1		86FRANK-B		86FRANK-1		86FRANK-B	
	Sample Date:	6/5/2007		11/12/2007		11/12/2007		2/4/2008		2/4/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		0.88 J	0.14 J	0.60 J	0.095 J	0.58 J	0.092 J	< 1.3	< 0.20	< 1.3	< 0.20
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	0.76 J	0.14 J	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-10b
Chemical Testing Results - Sub-Slab Soil Vapor
86 Franklin Street
Somerville, Massachusetts

	Sample Location:	**86 Franklin Street**	
	Sample Name:	**86 Frank-SG2**	
	Sample Date:	**4/25/07**	
	Units:	**µg/m^3**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		0.94 J	0.15 J
Tetrachloroethylene (PCE)		57	8.4
1,1,1-Trichloroethane (TCA)		1.9	0.34
Trichloroethylene (TCE)		1.6	0.29

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 7-11a
Chemical Testing Results - Indoor Air
91-93 Franklin Street
Somerville, Massachusetts

	Sample Location:	91-93 Franklin Street			
	Sample Name:	93 Franklin-B		93 Franklin-1	
	Sample Date:	2/14/07		2/14/07	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		3.5	0.52	0.95 J	0. 14 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-11b
Chemical Testing Results - Sub-Slab Soil Vapor

91-93 Franklin Street
Somerville, Massachusetts

	Sample Location:	**91-93 Franklin Street**	
	Sample Name:	**91 FRANK-SG1A**	**91 FRANK-SG1A**
	Sample Date:	**3/20/2007**	**3/20/2007**
	Units:	**µg/m^3**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Dichloroethane,1,1-		13	3.1
Tetrachloroethylene (PCE)		642	94.6
Trichloroethane,1,1,1 (TCA)		15	2.8
Trichloroethylene (TCE)		40	7.4

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-12a
Chemical Testing Results - Indoor Air
95 Franklin Street
Somerville, Massachusetts

95 Franklin Street - All Indoor Air Sampling Confirmatory

Table 7-12b
Chemical Testing Results - Sub-Slab Soil Vapor
95 Franklin Street
Somerville, Massachusetts

	Sample Location:	95 Franklin Street	
	Sample Name:	**95 Frank-SS2**	
	Sample Date:	**4/19/07**	
	Units:	**µg/m^3**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		0.63 J	0.10 J
1,1-Dichloroethane		133	32.9
1,1-Dichloroethylene		90.8	22.9
trans-1,2-Dichloroethylene		4.4	1.1
cis-1,2-Dichloroethylene		161	40.6
Tetrachloroethylene (PCE)		15500	2290
1,1,1-Trichloroethane (TCA)		234	42.9
Trichloroethylene (TCE)		447	83.1
Vinyl chloride		1.3	0.50

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-12c

Chemical Testing Results - Post-EPEM Installation Indoor Air

95 Franklin Street
Somerville, Massachusetts

	Sample Location:	95 Franklin Street			
	Sample Name:	95FRAN-1		95FRAN-B1	
	Sample Date:	6/7/2007		6/7/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.63 J	0.10 J	0.69 J	0.11 J
Tetrachloroethylene (PCE)		8.8	1.3	8.1	1.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-13a
Chemical Testing Results - Indoor Air
95R Franklin Street
Somerville, Massachusetts

	Sample Location:	95R Franklin Street							
	Sample Name:	95R Fran-1		95R Fran-B		95RFRANK-1		95RFRANK-CR	
	Sample Date:	4/18/07		4/18/07		6/5/07		6/5/07	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	0.88 J	0.14 J	< 6.3	< 1.0
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	0.98 J	0.18 J	< 1.1	< 0.20	< 1.1	< 0.20
Tetrachloroethylene (PCE)		35	5.1	106	15.6	19	2.8	8.1	1.2
Trichloroethylene (TCE)		1.1	0.20	2.7	0.51	0.75 J	0.14 J	< 5.4	< 1.0

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-13b

Chemical Testing Results - Sub-Slab Soil Vapor

95R Franklin Street
Somerville, Massachusetts

	Sample Location:	95R Franklin Street	
	Sample Name:	95R FRANK-SS2	
	Sample Date:	3/21/2007	
	Units:	µg/m^3	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Dichloroethane,1,1-		793	196
Dichloroethylene, cis-1,2-		504	127
Dichloroethylene,1,1-		932	235
Tetrachloroethylene (PCE)		108000	15900
Trichloroethane,1,1,1- (TCA)		1300	239
Trichloroethylene (TCE)		4970	924

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-13c

Chemical Testing Results - Post-EPEM Installation Indoor Air

95R Franklin Street
Somerville, Massachusetts

	Sample Location:	95R Franklin Street							
	Sample Name:	95RFRANK-1		95RFRANK-B		95RFRANK-1		95R FRANK-B2	
	Sample Date:	8/23/2007		8/23/07		11/15/2007		11/15/07	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.69 J	0.11 J	0.69 J	0.11 J	0.61 J	0.097 J	0.63 J	0.10 J
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Tetrachloroethylene (PCE)		2.3	0.34	3.5	0.52	1.3 J	0.19 J	1.3 J	0.19 J
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-13c
Chemical Testing Results - Post-EPEM Installation Indoor Air
95R Franklin Street
Somerville, Massachusetts

	Sample Location:	95R Franklin Street (continued)							
	Sample Name:	95RFran-B2		95RFran-1A		95R Frank-1		95R Frank-B	
	Sample Date:	12/23/07		12/23/07		12/28/07		12/28/07	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	0.58 J	0.092 J	0.62 J	0.098 J	< 1.3	< 0.20
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	1.0 J	0.15 J	1.1 J	0.16 J	1.1 J	0.16 J
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 7-14a
Chemical Testing Results - Indoor Air
97 Franklin Street
Somerville, Massachusetts

	Sample Location:	97 Franklin Street							
	Sample Name:	97FRAN-1		97FRAN-B		97FRAN-1		97FRAN-B	
	Sample Date:	9/29/2007		9/29/2007		2/21/2008		2/21/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	0.69 J	0.17 J	< 0.81	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.0 J	0.15 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-14b

Chemical Testing Results - Sub-Slab Soil Vapor

97 Franklin Street
Somerville, Massachusetts

	Sample Location:	**97 Franklin Street**			
	Sample Name:	**97FRANK-SS1**		**97FRANK-SS2**	
	Sample Date:	**6/30/2007**		**6/30/2007**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.82 J	0.13 J	< 0.53	< 0.20
Tetrachloroethylene (PCE)		34	5.0	86.8	12.8
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	1.5	0.27

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-15a
Chemical Testing Results - Indoor Air
97R Franklin Street
Somerville, Massachusetts

	Sample Location:	97R Franklin Street									
	Sample Name:	97RFRANK-1		97RFRANK-B		97RFRAN-B		97RFRANK-1		97RFRANK-B	
	Sample Date:	6/28/2007		6/28/2007		11/19/2007		2/4/2008		2/4/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		1.1 J	0.18 J	1.6	0.25	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
1,1,1-Trichloroethane (TCA)		0.42 J	0.077 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-15b

Chemical Testing Results - Sub-Slab Soil Vapor

97R Franklin Street
Somerville, Massachusetts

	Sample Location:	97R Franklin Street	
	Sample Name:	97R Frank-SS1	
	Sample Date:	4/27/2007	
	Units:	µg/m^3	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		60	8.9

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-16a
Chemical Testing Results - Indoor Air
99 Franklin Street
Somerville, Massachusetts

	Sample Location:	99 Franklin Street					
	Sample Name:	99FRANK-B		99FRANK-1		99FRANK-B	
	Sample Date:	6/25/2007		2/5/2008		2/5/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Tetrachloroethylene (PCE)		1.4	0.21	1.2 J	0.17 J	8.1	1.2

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-16b
Chemical Testing Results - Sub-Slab Soil Vapor
99 Franklin Street
Somerville, Massachusetts

	Sample Location:	**99 Franklin Street**	
	Sample Name:	**99FRANK-SS1**	
	Sample Date:	**5/8/2007**	
	Units:	**µg/m³**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		0.63 J	0.10 J
cis-1,2-Dichloroethylene		14	3.5
Trichloroethylene (TCE)		42	7.9
Tetrachloroethylene (PCE)		309	45.6

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-17a

Chemical Testing Results - Indoor Air

152-154 Glen Street

Somerville, Massachusetts

	Sample Location:	152-154 Glen Street							
	Sample Name:	152GLEN-1		152GLEN-B		152-154GLEN-1		152-154GLEN-B	
	Sample Date:	11/1/2007		11/1/2007		2/11/2008		2/11/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
1,2-Dichloroethane		2.8	0.69	< 0.81	< 0.20	1.3	0.32	< 0.81	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-17b

Chemical Testing Results - Sub-Slab Soil Vapor

152-154 Glen Street
Somerville, Massachusetts

	Sample Location:	152-154 Glen Street	
	Sample Name:	154 GLEN-SS1	
	Sample Date:	2/28/2007	
	Units:	μg/m^3	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		0.88 J	0.13 J
1,1,1-Trichloroethane (TCA)		0.65 J	0.12 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-18a

Chemical Testing Results - Indoor Air

153-155 Glen Street

Somerville, Massachusetts

	Sample Location:	**153-155 Glen Street**							
	Sample Name:	**155GLEN-1**		**155GLEN-B**		**153-155GLEN-1**		**153-155GLEN-B**	
	Sample Date:	**11/7/2007**		**11/7/2007**		**2/6/2008**		**2/6/2008**	
Analyte	**Method** / **Units:**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	0.60 J	0.096 J	< 1.3	< 0.20	< 1.3	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-18b

Chemical Testing Results - Sub-Slab Soil Vapor

153-155 Glen Street

Somerville, Massachusetts

	Sample Location:	153-155 Glen Street			
	Sample Name:	153 GLEN-SS1		153 GLEN-SS2	
	Sample Date:	3/12/2007		3/12/2007	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
1,1-Dichloroethane		0.33 J	0.082 J	< 0.81	< 0.20
Tetrachloroethylene (PCE)		6.0	0.89	5.0	0.74
1,1,1-Trichloroethane (TCA)		0.51 J	0.094 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-19a
Chemical Testing Results - Indoor Air
156 Glen Street
Somerville, Massachusetts

156 Glen Street - All samples non-detect 5/15/07

Table 7-19b
Chemical Testing Results - Sub-Slab Soil Vapor
156 Glen Street
Somerville, Massachusetts

	Sample Location:	**156 Glen Street**	
	Sample Name:	**156 GLEN-SS2**	
	Sample Date:	**3/15/2007**	
	Units:	**µg/m³**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
1,1,1-Trichloroethane (TCA)		10	1.9

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-20a
Chemical Testing Results - Indoor Air
162-164 Glen Street
Somerville, Massachusetts

	Sample Location:	**162-164 Glen Street**			
	Sample Name:	**162GLEN-1**		**162GLEN-B**	
	Sample Date:	**8/13/2007**		**8/13/2007**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.63 J	0.10 J	0.69 J	0.11 J
1,2-Dichloroethane		0.65 J	0.16 J	2.5	0.61
Tetrachloroethylene (PCE)		2.8	0.41	3.7	0.54
1,1,1-Trichloroethane (TCA)		0.53 J	0.097 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-20b
Chemical Testing Results - Sub-Slab Soil Vapor
162-164 Glen Street
Somerville, Massachusetts

	Sample Location:	162-164 Glen Street			
	Sample Name:	**164GLEN-SS1**		**164GLEN-SS2**	
	Sample Date:	**6/7/2007**		**6/7/2007**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		33	4.8	1.2 J	0.17 J
1,1,1-Trichloroethane (TCA)		1.0 J	0.19 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-21a
Chemical Testing Results - Indoor Air
163 Glen Street
Somerville, Massachusetts

	Sample Location:	163 Glen Street					
	Sample Name:	163GLEN-1A		163GLEN-1B		163GLEN-1	
	Sample Date:	11/5/2007		11/5/2007		2/11/2008	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.59 J	0.094 J
Tetrachloroethylene (PCE)		1.3 J	0.19 J	1.5	0.22	< 1.4	< 0.2
Trichloroethane, 1,1,1 (TCA)		0.87 J	0.16 J	0.93 J	0.17 J	< 1.1	< 0.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-21b
Chemical Testing Results - Sub-Slab Soil Vapor
163 Glen Street
Somerville, Massachusetts

	Sample Location:	**163 Glen Street**	
	Sample Name:	**163 Glen-SS1**	
	Sample Date:	**4/6/07**	
	Units:	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		1.4	0.21

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-22a
Chemical Testing Results - Indoor Air
166-168 Glen Street
Somerville, Massachusetts

	Sample Location:	**166-168 Glen Street**	
	Sample Name:	**045162-166GLEN-1**	
	Sample Date:	**9/7/2007**	
	Units:	**µg/m³**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		0.88 J	0.14 J
Tetrachloroethylene (PCE)		5.0	0.74
1,1,1-Trichloroethane (TCA)		0.47 J	0.087 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-22b
Chemical Testing Results - Sub-Slab Soil Vapor
166-168 Glen Street
Somerville, Massachusetts

	Sample Location:	166-168 Glen Street			
	Sample Name:	168GLEN-SS1		168GLEN-SS2	
	Sample Date:	5/30/2007		5/30/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.82 J	0.13 J	< 1.3	< 0.20
1,1-Dichloroethylene		< 0.79	< 0.20	0.52 J	0.13 J
Tetrachloroethylene (PCE)		10 G	1.5 G	271	39.9
1,1,1-Trichloroethane (TCA)		0.55 J	0.10 J	7.6	1.4
Trichloroethylene (TCE)		0.86 J	0.16 J	9.7	1.8

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
G The report is estimated due to duplicate precision outside control limits.

Table 7-23a
Chemical Testing Results - Indoor Air
2 Hadley Court #2a
Somerville, Massachusetts

	Sample Location:	2 Hadley Court #2a							
	Sample Name:	2A HAD-1		2A HAD-G		2HADA-1		2HADA-G	
	Sample Date:	9/5/2007		9/5/2007		3/7/2008		3/7/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	2.2	0.40	< 1.1	< 0.20	0.46 J	0.084 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-23b
Chemical Testing Results - Sub-Slab Soil Vapor
2 Hadley Court, #2a
Somerville, Massachusetts

	Sample Location:	2 Hadley Court, #2a			
	Sample Name:	2 HAD-SS1		2 HAD-SS2	
	Sample Date:	6/1/2007		6/1/2007	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		2.4	0.35	1.2 JG	0.17 JG
1,1,1-Trichloroethane (TCA)		1.1	0.20	0.82 J	0.15 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

G The report is estimated due to duplicate precision outside control limits.

Table 7-24a

Chemical Testing Results - Indoor Air

2 Hadley Court, #2b
Somerville, Massachusetts

	Sample Location:	2 Hadley Court #2b							
	Sample Name:	2HADB-1		2HADB-G		2BHAD-1		2BHAD-G	
	Sample Date:	9/10/2007		9/10/2007		2/18/2008		2/18/2008	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.69 J	0.11 J	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-24b

Chemical Testing Results - Sub-Slab Soil Vapor

2 Hadley Court, #2b

Somerville, Massachusetts

	Sample Location:	**2 Hadley Court, #2b**	
	Sample Name:	**2BHAD-SS1**	
	Sample Date:	**7/6/2007**	
	Units:	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		2.5	0.37

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-25a

Chemical Testing Results - Indoor Air

2 Hadley Court, #2c

Somerville, Massachusetts

	Sample Location:	2 Hadley Court, #2c							
	Sample Name:	2CHAD-1		2CHAD-G		2CHAD-1		2CHAD-G	
	Sample Date:	9/17/2007		9/17/2007		2/13/2008		2/13/2008	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.62 J	0.098 J	0.62 J	0.099 J	< 1.3	< 0.2	0.63 J	0.10 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-25b
Chemical Testing Results - Sub-Slab Soil Vapor
2 Hadley Court, #2c
Somerville, Massachusetts

	Sample Location:	2 Hadley Court, #2c			
	Sample Name:	2CHAD-SS1		2CHAD-SS2	
	Sample Date:	6/8/2007		6/8/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J
Tetrachloroethylene (PCE)		< 1.4	< 0.20	3.1	0.46

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-26a
Chemical Testing Results - Indoor Air
9 Knowlton Street
Somerville, Massachusetts

	Sample Location:	9 Knowlton Street			
	Sample Name:	9KNOW-1		9KNOW-B	
	Sample Date:	5/21/2007		5/21/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
1,1-Dichloroethylene		< 0.79	< 0.20	0.63 J	0.16 J
cis-1,2-Dichloroethylene		< 0.79	< 0.20	1.5	0.39
Tetrachloroethylene (PCE)		94.3 G	13.9 G	366 G	54.0 G
1,1,1-Trichloroethane (TCA)		1.3	0.23	4.4	0.81
Trichloroethylene (TCE)		1.3	0.24	3.9	0.72

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

G The report is estimated due to duplicate precision outside control limits.

Table 7-26b

Chemical Testing Results - Sub-Slab Soil Vapor

9 Knowlton Street
Somerville, Massachusetts

	Sample Location:	9 Knowlton Street	
	Sample Name:	9 KNOW-SS1	
	Sample Date:	2/28/2007	
	Units:	µg/m³	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		2.3	0.37
Tetrachloroethylene (PCE)		199	29.3
1,1,1-Trichloroethane (TCA)		0.76 J	0.14 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-27a

Chemical Testing Results - Indoor Air

12-14 Knowlton Street
Somerville, Massachusetts

	Sample Location:	12-14 Knowlton Street							
	Sample Name:	12-14KNOW1		12-14KNOWB		12-14KNOW-1		12-14KNOW-B	
	Sample Date:	6/14/2007		6/14/2007		11/13/2007		11/13/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	0.62 J	0.099 J	0.63 J	0.10 J	0.63 J	0.10 J
1,2-Dichloroethane		< 0.81	< 0.20	0.40 J	0.099 J	< 0.81	< 0.20	0.40 J	0.10 J
Tetrachloroethylene (PCE)		< 1.4	< 0.20	1.0 JG	0.15 JG	< 1.4	< 0.20	2.0	0.29

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

G The report is estimated due to duplicate precision outside control limits.

Table 7-27b
Chemical Testing Results - Sub-Slab Soil Vapor
12-14 Knowlton Street
Somerville, Massachusetts

	Sample Location:	12 Knowlton Street			
	Sample Name:	**12 Know-SS1**		**12 Know-SS2**	
	Sample Date:	**3/26/07**		**3/26/07**	
	Units:	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		14	2.0	6.5	0.96
1,1,1-Trichloroethane (TCA)		0.93 J	0.17 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-28a

Chemical Testing Results - Indoor Air

13 Knowlton Street
Somerville, Massachusetts

	Sample Location:	13 Knowlton Street					
	Sample Name:	13KNOW-B		13KNOW-1		13KNOW-B	
	Sample Date:	8/28/07		8/28/07		11/7/07	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		0.69 J	0.11 J	0.60 J	0.096 J	< 1.3	< 0.20
1,2-Dichloroethane		3.1	0.77	< 0.81	< 0.20	1.1	0.27
Tetrachloroethylene (PCE)		6.0	0.89	4.5	0.67	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-28b
Chemical Testing Results - Sub-Slab Soil Vapor
13 Knowlton Street
Somerville, Massachusetts

	Sample Location:	**13 Knowlton Street**	
	Sample Name:	**13 KNOW-SS1**	
	Sample Date:	**6/4/2007**	
Analyte	**Method** Units:	**µg/m^3**	**ppbv**
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		0.82 J	0.13 J
Tetrachloroethylene (PCE)		4.5	0.67

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-29a
Chemical Testing Results - Indoor Air
17 Knowlton Street
Somerville, Massachusetts

	Sample Location:	17 Knowlton Street			
	Sample Name:	**17KNOW-1**		**17KNOW-B**	
	Sample Date:	**10/5/2007**		**10/5/2007**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.63 J	0.10 J	0.60 J	0.095 J
Tetrachloroethylene (PCE)		1.7	0.25	2.7	0.40
1,1,1-Trichloroethane (TCA)		0.71 J	0.13 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-29b
Chemical Testing Results - Sub-Slab Soil Vapor
17 Knowlton Street
Somerville, Massachusetts

	Sample Location:	17 Knowlton Street			
	Sample Name:	17KNOW-SS1		17KNOW-SS2	
	Sample Date:	6/22/2007		6/22/2007	
	Units:	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		66	9.7	1.6	0.24
1,1,1-Trichloroethane (TCA)		1.5	0.28	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 7-30a
Chemical Testing Results - Indoor Air
19 Knowlton Street
Somerville, Massachusetts

	Sample Location:	19 Knowlton Street											
	Sample Name:	19KNOW-1		19KNOW-B		19KNOW-1		19KNOW-B		19KNOW-1		19KNOW-B	
	Sample Date:	7/25/2007		7/25/2007		12/6/2007		12/6/2007		2/15/2008		2/15/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		0.60 J	0.096 J	0.59 J	0.094 J	0.63 J	0.10 J	0.69 J	0.11 J	0.59 J	0.094 J	< 1.3	< 0.20
Dichloroethane,1,2-		0.61 J	0.15 J	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		1.2 J	0.17 J	1.3 J	0.19 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-30b

Chemical Testing Results - Sub-Slab Soil Vapor

19 Knowlton Street

Somerville, Massachusetts

	Sample Location:	**19 Knowlton Street**	
	Sample Name:	**19KNOW-SS2**	
	Sample Date:	**6/21/2007**	
	Units:	**µg/m³**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		18	2.7

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-31a

Chemical Testing Results - Indoor Air

23 Knowlton Street
Somerville, Massachusetts

	Sample Location:	23 Knowlton Street											
	Sample Name:	23 KNOW-1		23 KNOW-B		23KNOW-1		23KNOW-B		23KNOW-1		23KNOW-B	
	Sample Date:	4/23/2007		4/23/2007		11/7/2007		11/7/2007		2/5/2008		2/5/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		1.0 J	0.16 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	0.38 J	0.093 J	0.36 J	0.089 J	< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		1.3 J	0.19 J	1.2 J	0.18 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	8.8	1.3
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	0.87 J	0.16 J	< 1.1	< 0.20	0.60 J	0.11 J	< 1.1	< 0.20	0.35 J	0.064 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-31b

Chemical Testing Results - Sub-Slab Soil Vapor

23 Knowlton Street
Somerville, Massachusetts

		Sample Location:	**23 Knowlton Street**	
		Sample Name:	**23 KNOW-SS1**	
		Sample Date:	**2/28/2007**	
		Units:	**µg/m^3**	**ppbv**
Analyte	**Method**			
Volatile Organic Compounds (VOCs)	TO-15			
Tetrachloroethylene (PCE)			4.1	0.61
Trichloroethane,1,1,1- (TCA)			1.4	0.26

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-32a
Chemical Testing Results - Indoor Air
27 Knowlton Street
Somerville, Massachusetts

	Sample Location:	**27Knowlton Street**					
	Sample Name:	**27 KNOW-B**		**27 KNOW-1**		**27KNOW-B**	
	Sample Date:	**5/2/2007**		**5/2/2007**		**3/7/2008**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		0.75 J	0.12 J	0.61 J	0.097 J	0.61 J	0.097 J
Tetrachloroethylene (PCE)		1.0 J	0.15 J	< 1.4	< 0.20	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-32b
Chemical Testing Results - Sub-Slab Soil Vapor
27 Knowlton Street
Somerville, Massachusetts

	Sample Location:	27 Knowlton Street			
	Sample Name:	**27KNOW-SS1**		**27KNOW-SS2**	
	Sample Date:	**3/9/2007**		**3/9/2007**	
	Units:	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 7-33a
Chemical Testing Results - Indoor Air
29 Knowlton Street
Somerville, Massachusetts

	Sample Location:	29 Knowlton Street							
	Sample Name:	29KNOW-1		29KNOW-B		29KNOW-1		29KNOW-B	
	Sample Date:	6/22/2007		6/22/2007		2/2/2008		2/2/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	0.63 J	0.10 J	0.63 J	0.10 J	< 1.3	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-33b

Chemical Testing Results - Sub-Slab Soil Vapor

29 Knowlton Street
Somerville, Massachusetts

	Sample Location:	29 Knowlton Street			
	Sample Name:	29 KNOW-SS1		29KNOW-SS2	
	Sample Date:	3/22/2007		3/22/2007	
	Units:	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		< 1.3	< 0.20	0.94 J	0.15 J
Tetrachloroethylene (PCE)		5.8	0.86	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-34a
Chemical Testing Results - Indoor Air

31-33 Knowlton Street
Somerville, Massachusetts

	Sample Location:	31-33 Knowlton Street							
	Sample Name:	33KNOWLTON-B		33Know-1		045162-31 Know-B		31 Know-1	
	Sample Date:	1/22/2007		1/22/2007		4/20/2007		4/20/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 0.63 J	< 0.10 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)		3.0	0.44	< 1.4	< 0.20	33	4.8	1.4	0.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 7-34b
Chemical Testing Results - Sub-Slab Soil Vapor
31-33 Knowlton Street
Somerville, Massachusetts

	Sample Location:	31-33 Knowlton Street	
	Sample Name:	31 KNOW-SS2	
	Sample Date:	3/5/2007	
	Units:	$\mu g/m^3$	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		2.6	0.39

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-34c
Chemical Testing Results - Post-EPEM Installation Indoor Air
31-33 Knowlton Street
Somerville, Massachusetts

	Sample Location:	31-33 Knowlton Street, Basement					
	Sample Name:	31KNOWB		31KNOW-B		31-33KNOW-B	
	Sample Date:	8/6/2007		11/12/2007		2/6/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 0.69 J	< 0.11 J	0.62 J	0.099 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	4.9	0.72

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 7-34c

Chemical Testing Results - Post-EPEM Installation Indoor Air

31-33 Knowlton Street

Somerville, Massachusetts

	Sample Location:	31-3 3Knowlton Street, First Floor					
	Sample Name:	31KNOW1		31KNOW-1		31-33KNOW-1	
	Sample Date:	8/6/2007		11/12/2007		2/6/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	1.9	0.28

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 7-35a
Chemical Testing Results - Indoor Air
32 Knowlton Street
Somerville, Massachusetts

32 Knowlton Street - No Indoor Air Sampling

Table 7-35b
Chemical Testing Results - Sub-Slab Soil Vapor
32 Knowlton Street
Somerville, Massachusetts

32 Knowlton Street - All samples non-detect 5/16/07

Table 7-36a
Chemical Testing Results - Indoor Air
35-37 Knowlton Street
Somerville, Massachusetts

	Sample Location:	35-37 Knowlton Street	
	Sample Name:	37 KNOWLTON-B	
	Sample Date:	1/23/2007	
	Units:	µg/m³	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		0.69 J	0.11 J
Dichloroethane,1,1-		7.3	1.8
Dichloroethylene, cis-1,2-		3.4	0.86
Dichloroethylene,1,1-		6.7	1.7
Tetrachloroethylene (PCE)		163	24.0
Trichloroethane,1,1,1- (TCA)		2.0	0.37
Trichloroethylene (TCE)		20	3.8

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-36b
Chemical Testing Results - Sub-Slab Soil Vapor
35-37 Knowlton Street
Somerville, Massachusetts

	Sample Location:	**35-37 Knowlton Street**			
	Sample Name:	**35 Know-SS1**		**35 Know-SS2**	
	Sample Date:	**3/19/07**		**3/19/07**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
1,1-Dichloroethane		502	124	619	153
1,1-Dichloroethylene		749	189	1100	277
cis-1,2-Dichloroethylene		249	62.9	390	98.3
Tetrachloroethylene (PCE)		16400	2420	21600	3190
1,1,1-Trichloroethane (TCA)		198	36.2	366	67.0
Trichloroethylene (TCE)		3050	567	3740	696

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-37a
Chemical Testing Results - Indoor Air
4 Morton Street
Somerville, Massachusetts

4 Morton Street - No Indoor Air Sampling

Table 7-37b
Chemical Testing Results - Sub-Slab Soil Vapor
4 Morton Street
Somerville, Massachusetts

	Sample Location:	**4 Morton Street**	
	Sample Name:	**4MORT-SS2**	
	Sample Date:	**6/27/2007**	
	Units:	**µg/m^3**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		38300	5650
1,1,1-Trichloroethane (TCA)		401	73.5
Trichloroethylene (TCE)		169	31.4

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-38a

Chemical Testing Results - Indoor Air

6-8 Morton Street
Somerville, Massachusetts

	Sample Location:	6-8 Morton Street											
	Sample Name:	6MORT-B		6MORT-1		6-8MORT-B		6-8MORT-1		6MORT-B		6MORT-1	
	Sample Date:	6/18/2007		6/18/2007		11/7/2007		11/7/2007		2/7/2008		2/7/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Tetrachloroethylene (PCE)		1.4	0.20	< 1.4	< 0.20	3.1	0.45	< 1.4	< 0.20	1.2 J	0.17 J	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-38b
Chemical Testing Results - Sub-Slab Soil Vapor
6-8 Morton Street
Somerville, Massachusetts

	Sample Location:	**6-8 Morton Street**			
	Sample Name:	**8Mort-SS1**		**8Mort-SS2**	
	Sample Date:	**4/20/2007**		**4/20/2007**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		16	2.3	3.9	0.58

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-39a
Chemical Testing Results - Indoor Air
7 Morton Street
Somerville, Massachusetts

	Sample Location:	7 Morton Street											
	Sample Name:	7MORT-1		7MORT-B		7MORT-1		7MORT-B		7MORT-1		7MORT-B	
	Sample Date:	6/20/2007		6/20/2007		11/13/2007		11/13/2007		2/20/2008		2/20/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		0.62 J	0.099 J	0.82 J	0.13 J	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	0.45 J	0.11 J	< 0.81	< 0.20	0.30 J	0.073 J	< 0.81	< 0.20
Tetrachloroethylene (PCE)		0.95 J	0.14 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-39b

Chemical Testing Results - Sub-Slab Soil Vapor

7 Morton Street

Somerville, Massachusetts

	Sample Location:	7 Morton Street	
	Sample Name:	7Mort-SS1	
	Sample Date:	5/8/2007	
	Units:	$\mu g/m^3$	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		6.4	0.94

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-40a
Chemical Testing Results - Indoor Air
10 Morton Street
Somerville, Massachusetts

	Sample Location:	10 Morton Street											
	Sample Name:	10MORT 1		10MORT B		10MORT-1		10MORT-B		10MORT-1		10MORT-B	
	Sample Date:	8/10/2007		8/10/2007		11/12/2007		11/12/2007		2/21/2008		2/21/2008	
Analyte	Method	Units: µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		0.63 J	0.10 J	< 1.3	< 0.20	0.69 J	0.11 J	0.62 J	0.099 J	0.63 J	0.10 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	2.2	0.33	< 1.4	< 0.20	< 1.4	< 0.20	2.2	0.32	12	1.8
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	4.3	0.79	< 1.1	< 0.20	0.60 J	0.11 J	< 1.1	< 0.20	0.47 J	0.087 J

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 7-40b
Chemical Testing Results - Sub-Slab Soil Vapor
10 Morton Street
Somerville, Massachusetts

	Sample Location:	10 Morton Street			
	Sample Name:	10MORT-SS1		10MORT-SG1	
	Sample Date:	5/9/2007		5/9/2007	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		< 1.4	< 0.20	4.0	0.59
1,1,1-Trichloroethane (TCA)		0.87 J	0.16 J	1.2	0.22

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-41a
Chemical Testing Results - Indoor Air
11 Morton Street
Somerville, Massachusetts

	Sample Location:	11 Morton Street			
	Sample Name:	11 MORT-1		11 MORT-B	
	Sample Date:	6/5/2007		6/5/2007	
	Units:	μg/m³	ppbv	μg/m³	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon Tetrachloride		0.61 J	0.097 J	0.63 J	0.10 J
Tetrachloroethylene (PCE)		8.1	1.2	3.0	0.44
Trichloroethylene (TCE)		4.5	0.84	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-41b
Chemical Testing Results - Sub-Slab Soil Vapor
11 Morton Street
Somerville, Massachusetts

	Sample Location:	11 Morton Street			
	Sample Name:	11 MORT-SS1		11 MORT-SS2	
	Sample Date:	3/21/2007		3/21/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
1,1-Dichloroethane		0.85	0.21	< 0.81	< 0.20
1,1-Dichloroethylene		1.2	0.31	< 0.79	< 0.20
Tetrachloroethylene (PCE)		403	59.5	1.6	0.23
1,1,1-Trichloroethane (TCA)		8.2	1.5	< 1.1	< 0.20
Trichloroethylene (TCE)		9.7	1.8	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 7-42a
Chemical Testing Results - Indoor Air
12 Morton Street
Somerville, Massachusetts

12 Morton Street - All Indoor Air Sampling Confirmatory

Table 7-42b
Chemical Testing Results - Sub-Slab Soil Vapor
12 Morton Street
Somerville, Massachusetts

	Sample Location:	12 Morton Street	
	Sample Name:	12MORT-SS1	
	Sample Date:	5/29/2007	
	Units:	$\mu g/m^3$	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		1010	149

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-42c

Chemical Testing Results - Post-EPEM Installation Indoor Air

12 Morton Street
Somerville, Massachusetts

	Sample Location:	12 Morton Street							
	Sample Name:	12MORT-1A		12MORT-1B		12MORT-B1		12MORT-B2	
	Sample Date:	3/5/2008		3/5/2008		3/5/2008		3/5/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.62 J	0.099 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-42c

Chemical Testing Results - Post-EPEM Installation Indoor Air

12 Morton Street

Somerville, Massachusetts

	Sample Location:	12 Morton Street (continued)							
	Sample Name:	12MORT-1A		12MORT-1B		12MORT-B1		12MORT-B2	
	Sample Date:	3/21/2008		3/21/2008		3/21/2008		3/21/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.62 J	0.099 J	0.75 J	0.12 J	< 1.3	< 0.20	0.60 J	0.095 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-43a
Chemical Testing Results - Indoor Air
13 Morton Street
Somerville, Massachusetts

13 Morton Street - No Indoor Air Sampling

Table 7-43b
Chemical Testing Results - Sub-Slab Soil Vapor
13 Morton Street
Somerville, Massachusetts

	Sample Location:	13 Morton Street	
	Sample Name:	13MORT-SS1	
	Sample Date:	6/26/2007	
	Units:	µg/m³	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
1,1-Dichloroethane		1.2	0.29
Tetrachloroethylene (PCE)		1690	249
1,1,1-Trichloroethane (TCA)		19	3.5
Trichloroethylene (TCE)		8.6	1.6

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-44a

Chemical Testing Results - Indoor Air

15 Morton Street
Somerville, Massachusetts

	Sample Location:	15 Morton Street			
	Sample Name:	15MORT-1		15MORT-B	
	Sample Date:	2/27/2008		2/27/2008	
	Units:	μg/m³	ppbv	μg/m³	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.63 J	0.10 J	0.69 J	0.11 J
Tetrachloroethane, 1,1,2,2-		< 1.4	< 0.20	< 1.4 J+	< 0.20 J+
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4 J+	< 0.20 J+
Trichloroethane, 1,1,2-		< 1.1	< 0.20	< 1.1 J+	< 0.20 J+
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1 J+	< 0.20 J+

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-44b
Chemical Testing Results - Sub-Slab Soil Vapor
15 Morton Street
Somerville, Massachusetts

15 Morton Street - All analytes non detect 5/14/07

Table 7-45a
Chemical Testing Results - Indoor Air
18 Morton Street
Somerville, Massachusetts

18 Morton Street - All Indoor Air Sampling Confirmatory

Table 7-45b
Chemical Testing Results - Sub-Slab Soil Vapor
18 Morton Street
Somerville, Massachusetts

	Sample Location:	**18 Morton Street**			
	Sample Name:	**18 MORT-SS1**		**18 MORT-SS2**	
	Sample Date:	**3/19/2007**		**3/19/2007**	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
1,1-Dichloroethane		< 0.81	< 0.20	2.6	0.64
1,1-Dichloroethylene		< 0.79	< 0.20	69.4	17.5
Tetrachloroethylene (PCE)		6.8	1.0	1180	174
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	27	4.9
Trichloroethylene (TCE)		< 1.1	< 0.20	97.3	18.1

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Table 7-45c

Chemical Testing Results - Post-EPEM Installation Indoor Air

18 Morton Street

Somerville, Massachusetts

	Sample Location:	18 Morton Street					
	Sample Name:	18MORT-B		18MORT-B		18MORT-B	
	Sample Date:	7/24/2007		11/5/2007		2/4/2008	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 1.3	< 0.20	0.60 J	0.095 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)		1.4	0.2	< 1.4	< 0.20	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-46a
Chemical Testing Results - Indoor Air
19-19A Morton Street
Somerville, Massachusetts

	Location Name:	19-19A Morton Street							
	Sample Name:	19MORT-1		19MORT-B		19MORT-1		19MORT-B	
	Sample Date:	7/2/2007		7/2/2007		4/4/2008		4/4/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	0.68 J	0.10 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-46b
Chemical Testing Results - Sub-Slab Soil Vapor
19-19A Morton Street
Somerville, Massachusetts

	Sample Location:	19-19A Morton Street			
	Sample Name:	19 Mort-SS1		19 Mort-SS2	
	Sample Date:	4/18/07		4/18/07	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		2.4 J	0.35 J	80.7	11.9

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 7-47a
Chemical Testing Results - Indoor Air
21 Morton Street
Somerville, Massachusetts

21 Morton Street - All analytes non-detect 5/15/07

Table 7-47b
Chemical Testing Results - Sub-Slab Soil Vapor
21 Morton Street
Somerville, Massachusetts

	Sample Location:	**21 Morton Street**			
	Sample Name:	**21 Mort-SS1A**		**21 Mort-SS2A**	
	Sample Date:	**3/28/07**		**3/28/07**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		3.1	0.45	14	2.0
1,1,1-Trichloroethane (TCA)		0.65 J	0.12 J	154	28.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-48a
Chemical Testing Results - Indoor Air
9 Tufts Street
Somerville, Massachusetts

	Location Name:	9 Tufts Street									
	Sample Name:	IA-6 (B)		IA-5 (1)		9TUFTS-BR		9TUFTS-1L		9TUFTS-1R	
	Sample Date:	2/23/2005		2/23/2005		3/23/2006		3/23/2006		3/23/2006	
Analyte	**Method** / Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloroform		0.54 J	0.11 J	1.2	0.25	1.3	0.26	0.78 J	0.16 J	< 0.98	< 0.20
Chloromethane		0.91	0.44	1.0	0.49	1.1 G	0.53 G	1.4 G	0.69 G	1.4 G	0.69 G
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Methylene chloride		0.56 J	0.16 J	0.59 J	0.17 J	1.9 B	0.55 B	1.8 B	0.52 B	1.3 B	0.36 B
Tetrachloroethylene (PCE)		1.3 J	0.19 J	1.8	0.27	2.4	0.35	< 1.4	< 0.20	0.95 J	0.14 J
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-48a
Chemical Testing Results - Indoor Air
9 Tufts Street
Somerville, Massachusetts

	Location Name:	9 Tufts Street									
	Sample Name:	9TUFTS-BR		9TUFTS-1L		9TUFTS-1R		9TUFTS-BR		9TUFTS-1L	
	Sample Date:	7/24/2006		7/24/2006		7/24/2006		10/2/2006		10/2/2006	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloroform		1.2	0.24	0.88 J	0.18 J	2.3	0.47	NT	NT	NT	NT
Chloromethane		0.95	0.46	1.0	0.49	1.1	0.55	NT	NT	NT	NT
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Methylene chloride		11 B	3.1 B	4.2 B	1.2 B	6.6 B	1.9 B	NT	NT	NT	NT
Tetrachloroethylene (PCE)		3.1	0.45	1.2 J	0.18 J	2.0	0.29	16	2.4	3.5	0.52
Trichloroethane,1,1,1- (TCA)		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-48a
Chemical Testing Results - Indoor Air
9 Tufts Street
Somerville, Massachusetts

	Location Name:	9 Tufts Street							
	Sample Name:	9TUFTS-1R		9 TUFTS-BR		9 TUFTS-1L		9 TUFTS-1R	
	Sample Date:	10/2/2006		12/15/2006		12/15/2006		12/15/2006	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	0.75 J	0.12 J	0.62 J	0.099 J	0.59 J	0.093 J
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT
Chloromethane		NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Methylene chloride		NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		6.2	0.91	2.2	0.32	1.9	0.28	0.64 J	0.095 J
Trichloroethane,1,1,1- (TCA)		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 7-48b
Chemical Testing Results - Sub-Slab Soil Vapor
9 Tufts Street
Somerville, Massachusetts

9 Tufts Street - No Sub-Slab Sampling

Table 7-49a

Chemical Testing Results - Indoor Air

11-13 Tufts Street
Somerville, Massachusetts

	Sample Location:	11-13 Tufts Street							
	Sample Name:	IA-2 (B)		IA-2D (Duplicate)		IA-1 (1)		11/13TUFTS-B	
	Sample Date:	2/23/2005		2/23/2005		2/23/2005		3/24/2006	
	Collected By:	Shaw		Shaw		SHAW		GEI	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroform		< 0.98	< 0.20	< 0.98	< 0.20	2.8	0.57	< 0.98	< 0.20
Chloromethane		0.81	0.39	0.74	0.36	0.99	0.48	1.4 G	0.68 G
Methylene chloride		1.0	0.29	0.90	0.26	0.8	0.23	4.5 J+	1.3 J+
Tetrachloroethylene (PCE)		1.8	0.26	1.9	0.28	1.0 J	0.15 J	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-49a
Chemical Testing Results - Indoor Air
11-13 Tufts Street
Somerville, Massachusetts

	Sample Location:	**11-13 Tufts Street (continued)**							
	Sample Name:	**11/13TUFTS-1**		**11/13 TUFTS-B**		**11/13 TUFTS-1**		**11/13TUFTS-B**	
	Sample Date:	**3/24/2006**		**6/29/2006**		**6/29/2006**		**9/28/2006**	
	Collected By:	**GEI**		**GEI**		**GEI**		**GEI**	
	Units:	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J	0.69 J	0.11 J	< 1.3	< 0.20
Chloroform		< 0.98	< 0.20	< 0.98	< 0.20	1.5	0.30	NT	NT
Chloromethane		1.4 G	0.70 G	1.7	0.80	2.7	1.3	NT	NT
Methylene chloride		1.2 J+	0.34 J+	5.2 J+	1.5 J+	2.7 J+	0.77 J+	NT	NT
Tetrachloroethylene (PCE)		< 1.4	< 0.20	2.4	0.36	1.8	0.27	0.88 J	0.13 J
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	0.71 J	0.13 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-49a
Chemical Testing Results - Indoor Air
11-13 Tufts Street
Somerville, Massachusetts

	Sample Location:	11-13 Tufts Street (continued)					
	Sample Name:	11/13TUFTS-1		11/13 TUFTS-B		11/13 TUFTS-1	
	Sample Date:	9/28/2006		12/15/2006		12/15/2006	
	Collected By:	GEI		GEI		GEI	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J	0.62 J	0.099 J
Chloroform		NT	NT	NT	NT	NT	NT
Chloromethane		NT	NT	NT	NT	NT	NT
Methylene chloride		NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.5	0.22	2.2	0.33	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-49b
Chemical Testing Results - Sub-Slab Soil Vapor
11-13 Tufts Street
Somerville, Massachusetts

11-13 Tufts Street - No Sub-Slab Sampling

Table 7-50a
Chemical Testing Results - Indoor Air
17 Tufts Street
Somerville, Massachusetts

	Sample Location:	17 Tufts Street									
	Sample Name:	IA-11 (B)		IA-12 (1)		17TUFTS-B		17TUFTS-C		17TUFTS-1	
	Sample Date:	3/24/2005		3/24/2005		3/24/2006		3/24/2006		3/24/2006	
	Collected By:	SHAW		SHAW		GEI		GEI		GEI	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		NT	NT	NT	NT	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroform		1.1	0.23	1.9	0.39	< 0.98	< 0.20	< 0.98	< 0.20	< 0.98	< 0.20
Chloromethane		0.97	0.47	1.1	0.52	1.2 G	0.58 G	1.4 G	0.69 G	1.7 G	0.80 G
Methylene chloride		1.5	0.43	1.0	0.3	59.1 G	17.0 G	57.3 G	16.5 G	4.2 J+	1.2 J+
Tetrachloroethylene (PCE)		8.8	1.3	4.7	0.69	1.3 J	0.19 J	1.4	0.21	2.9	0.43
Trichloroethylene (TCE)		0.91 J	0.17 J	< 1.1	< 0.20	< 1.1	< 0.20	0.70 J	0.13 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-50a
Chemical Testing Results - Indoor Air
17 Tufts Street
Somerville, Massachusetts

	Sample Location:	17 Tufts Street (continued)											
	Sample Name:	17TUFTS-B		17TUFTS-C		17TUFTS-1		17 TUFTS-B		17 TUFTS-1		17 TUFTS-C	
	Sample Date:	10/2/2006		10/2/2006		10/2/2006		12/18/2006		12/18/2006		12/18/2006	
	Collected By:	GEI		GEI		GEI		GEI		GEI		GEI	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.52 J	0.083 J	0.57 J	0.090 J	< 1.3	< 0.20
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloromethane		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene chloride		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		6.1	0.90	6.0	0.89	0.88 J	0.13 J	2.0	0.30	1.5	0.22	< 1.4	< 0.20
Trichloroethylene (TCE)		7.0	1.3	7.0	1.3	< 1.1	< 0.20	0.70 J	0.13 J	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-50b
Chemical Testing Results - Sub-Slab Soil Vapor
17 Tufts Street
Somerville, Massachusetts

17 Tufts Street - No Sub-Slab Sampling

Table 7-51a
Chemical Testing Results - Indoor Air
19 Tufts Street
Somerville, Massachusetts

	Sample Location:	**19 Tufts Street**									
	Sample Name:	IA-13 (B)		IA-14 (1)		19TUFTS-B		19TUFTS-C		19TUFTS-1	
	Sample Date:	3/24/2005		3/24/2005		3/23/2006		3/23/2006		3/23/2006	
	Collected By:	SHAW		SHAW		GEI		GEI		GEI	
	Units:	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroform		< 0.98	< 0.20	0.78 J	0.16 J	< 0.98	< 0.20	< 0.98	< 0.20	< 0.98	< 0.20
Chloromethane		0.85	0.41	1.1	0.52	1.8 G	0.88 G	1.8 G	0.85 G	21.7 G	10.5 G
Methylene chloride		0.35 J	0.1 J	0.34 J	0.099 J	3.2 J+	0.92 J+	4.2 J+	1.2 J+	4.2 J+	1.2 J+
Tetrachloroethylene (PCE)		3.2	0.47	0.95 J	0.14 J	7.5	1.1	6.6	0.98	1.2	0.18
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-51a
Chemical Testing Results - Indoor Air
19 Tufts Street
Somerville, Massachusetts

	Sample Location:	19 Tufts Street (continued)							
	Sample Name:	19 TUFTS-B		19 TUFTS-C		19 TUFTS-1		19TUFTS-B	
	Sample Date:	6/29/2006		6/29/2006		6/29/2006		10/10/2006	
	Collected By:	GEI		GEI		GEI		GEI	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.69 J	0.11 J	0.69 J	0.11 J	0.69 J	0.11 J	< 1.3	< 0.20
Chloroform		0.83 J	0.17 J	0.88 J	0.18 J	5.4	1.1	NT	NT
Chloromethane		3.1	1.5	< 0.41	< 0.20	2.3	1.1	NT	NT
Methylene chloride		14 J+	4.0 J+	13 J+	3.6 J+	14 J+	4.1 J+	NT	NT
Tetrachloroethylene (PCE)		4.1	0.60	3.8	0.56	2.4	0.35	15	2.2
Trichloroethylene (TCE)		2.1	0.39	1.6	0.30	1.7	0.31	6.4	1.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-51a
Chemical Testing Results - Indoor Air
19 Tufts Street
Somerville, Massachusetts

	Sample Location:	19 Tufts Street (continued)									
	Sample Name:	19TUFTS-C		19TUFTS-1		19 TUFTS-B		19 TUFTS-C		19 TUFTS-1	
	Sample Date:	10/10/2006		10/10/2006		12/15/2006		12/15/2006		12/15/2006	
	Collected By:	GEI		GEI		GEI		GEI		GEI	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.59 J	0.093 J	< 1.3	< 0.20	0.63 J	0.10 J
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloromethane		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene chloride		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		6.8	1.0	< 1.4	< 0.20	2.5	0.37	1.4	0.20	0.60 J	0.089 J
Trichloroethylene (TCE)		6.4	1.2	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 7-51b
Chemical Testing Results - Sub-Slab Soil Vapor
19 Tufts Street
Somerville, Massachusetts

19 Tufts Street - No Sub-Slab Sampling

Table 7-52a

Chemical Testing Results - Indoor Air

23 Tufts Street
Somerville, Massachusetts

	Sample Location:	23 Tufts Street							
	Sample Name:	IA-8 (B)		IA-7 (1)		23TUFTS-B		23TUFTS-1	
	Sample Date:	2/23/2005		2/23/2005		3/24/2006		3/24/2006	
	Collected By:	SHAW		SHAW		GEI		GEI	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Chloroform		0.88 J	0.18 J	0.63 J	0.13 J	< 0.98	< 0.20	< 0.98	< 0.20
Chloromethane		1.1	0.54	0.97	0.47	1.6	0.79	1.7 G	0.82 G
Methylene chloride		0.49 J	0.14 J	0.52 J	0.15 J	2.0 J+	0.57 J+	2.7 J+	0.77 J+
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		2.3	0.34	1.6	0.23	2.8	0.42	< 1.4	< 0.20
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-52a
Chemical Testing Results - Indoor Air
23 Tufts Street
Somerville, Massachusetts

	Sample Location:	23 Tufts Street (continued)							
	Sample Name:	23 TUFTS-B		23 TUFTS-1		23TUFTS-B		23TUFTS-1	
	Sample Date:	6/28/2006		6/28/2006		8/3/2006		8/3/2006	
	Collected By:	GEI		GEI		GEI		GEI	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Chloroform		3.7	0.76	13	2.7	NT	NT	NT	NT
Chloromethane		1.9	0.91	1.6	0.78	NT	NT	NT	NT
Methylene chloride		2.4 J+	0.70 J+	396 G	114 G	NT	NT	NT	NT
Carbon tetrachloride		< 1.3	< 0.20	0.94 J	0.15 J	0.69 J	0.11 J	0.69 J	0.11 J
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		125	18.5	94.9	14.0	10	1.5	9.5	1.4
1,1,1-Trichloroethane (TCA)		1.5	0.28	1.0 J	0.19 J	0.60 J	0.11 J	< 1.1	< 0.20
Trichloroethylene (TCE)		1.0 J	0.19 J	0.64 J	0.12 J	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-52a
Chemical Testing Results - Indoor Air
23 Tufts Street
Somerville, Massachusetts

	Sample Location:	23 Tufts Street (continued)							
	Sample Name:	23TUFTS-B		23TUFTS-1		23 TUFTS-1		23 TUFTS-B	
	Sample Date:	10/2/2006		10/2/2006		12/18/2006		12/18/2006	
	Collected By:	GEI		GEI		GEI		GEI	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT
Chloromethane		NT	NT	NT	NT	NT	NT	NT	NT
Methylene chloride		NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.58 J	0.092 J
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		6.8	1.0	4.1	0.60	54	8.0	46	6.8
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	0.51 J	0.093 J	0.71 J	0.13 J
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	0.54 J	0.10 J	0.19 J	0.093 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-52b
Chemical Testing Results - Sub-Slab Soil Vapor
23 Tufts Street
Somerville, Massachusetts

23 Tufts Street - No Sub-Slab Sampling

Table 7-52c

Chemical Testing Results - Post-EPEM Installation Indoor Air

23 Tufts Street

Somerville, Massachusetts

	Sample Location:	**23 Tufts Street**											
	Sample Name:	**23TUFTS-B**		**23TUFTS-1**		**23TUFTS-B**		**23TUFTS-1**		**23TUFTS-B**		**23TUFTS-1**	
	Sample Date:	**5/26/2007**		**5/26/2007**		**11/17/2007**		**11/17/2007**		**2/1/2008**		**2/1/2008**	
	Collected By:	**GEI**		**GEI**		**GEI**		**GEI**		**GEI**		**GEI**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.75 J	0.12 J	< 1.3	< 0.20	0.59 J	0.094 J
1,2-Dichloroethane		< 0.81	< 0.20	< 0.81	< 0.20	0.26 J	0.064 J	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
1,1,1-Trichloroethane (TCA)		0.54 J	0.099 J	0.51 J	0.093 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-53a
Chemical Testing Results - Indoor Air
25 Tufts Street
Somerville, Massachusetts

	Sample Location:	25 Tufts Street									
	Sample Name:	IA-4 (B)		IA-3 (1)		25TUFTS-B		25TUFTS-1		25TUFTS-B	
	Sample Date:	2/23/2005		2/23/2005		3/23/2006		3/23/2006		8/1/2006	
	Collected By:	SHAW		SHAW		GEI		GEI		GEI	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroform		< 0.98	< 0.20	2	0.4	< 0.98	< 0.20	< 0.98	< 0.20	NT	NT
Chloromethane		0.74	0.36	0.95	0.46	1.1 G	0.52 G	1.1 G	0.54 G	NT	NT
Methylene chloride		0.49 J	0.14 J	< 1.4 J+	< 0.20 J+	1.6 J+	0.47 J+	1.9 J+	0.54 J+	NT	NT
Tetrachloroethylene (PCE)		1.6	0.23	< 1.1	< 0.20	3.2	0.47	1.7	0.25	3.9	0.57

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 7-53a
Chemical Testing Results - Indoor Air
25 Tufts Street
Somerville, Massachusetts

	Sample Location:	25 Tufts Street (continued)									
	Sample Name:	25TUFTS-1		25TUFTS-B		25TUFTS-1		25 TUFTS-B		25 TUFTS-1	
	Sample Date:	8/1/2006		10/2/2006		10/2/2006		12/15/2006		12/15/2006	
	Collected By:	GEI		GEI		GEI		GEI		GEI	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.56 J	0.089 J	0.63 J	0.10 J
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chloromethane		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene chloride		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		2.0	0.29	4.2	0.62	< 1.4	< 0.20	6.6	0.97	1.7	0.25

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-53b
Chemical Testing Results - Sub-Slab Soil Vapor
25 Tufts Street
Somerville, Massachusetts

25 Tufts Street - No Sub-Slab Sampling

Table 7-54a
Chemical Testing Results - Indoor Air
27 Tufts Street
Somerville, Massachusetts

	Sample Location:	27 Tufts Street											
	Sample Name:	IA-10 (B)		IA-9 (1)		27TUFTS-B		27TUFTS-1		27 TUFTS-B		27 TUFTS-1	
	Sample Date:	2/23/2005		2/23/2005		3/23/2006		3/23/2006		6/28/2006		6/28/2006	
	Collected By:	SHAW		SHAW		GEI		GEI		GEI		GEI	
Analyte	**Method** Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloromethane		0.6	0.29	1.2	0.59	2.9 G	1.4 G	110 G	53.5 G	1.3	0.65	1.6	0.79
Methylene chloride		0.49 J	0.14 J	0.52 J	0.15 J	4.2 J+	1.2 J+	2.0 J+	0.59 J+	2.1 J+	0.60 J+	2.2 J+	0.63 J+
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	117	17.3	3.8	0.56
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.0 J	0.19 J	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-54a
Chemical Testing Results - Indoor Air
27 Tufts Street
Somerville, Massachusetts

Analyte	Method												
	Sample Location:	27 Tufts Street (continued)											
	Sample Name:	27TUFTS-B		27TUFTS-1		27TUFTS-B		27TUFTS-1		27 TUFTS-B		27 TUFTS-1	
	Sample Date:	8/3/2006		8/3/2006		9/28/2006		9/28/2006		12/18/2006		12/18/2006	
	Collected By:	GEI		GEI		GEI		GEI		GEI		GEI	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	0.60 J	0.096 J
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	1.8	0.70	< 0.53	< 0.20
Chloromethane		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene chloride		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		1.6	0.23	0.81 J	< 0.12 J	38	5.6	12	1.8	37	5.5	4.9	0.72
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	0.55 J	0.10 J	< 1.1	< 0.20	0.38 J	0.069 J	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.45 J	0.083 J	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = Not Tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 7-54b
Chemical Testing Results - Sub-Slab Soil Vapor
27 Tufts Street
Somerville, Massachusetts

	Sample Location:	**27 Tufts Street**			
	Sample Name:	**27Tufts-SS1**		**27Tufts-SS2**	
	Sample Date:	**3/9/2007**		**3/9/2007**	
		GEI		**GEI**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J
Tetrachloroethylene (PCE)		180	26.5	41	6.1
1,1,1-Trichloroethane (TCA)		3.9	0.71	0.50 J	0.091 J
Trichloroethylene (TCE)		2.8	0.52	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-55a
Chemical Testing Results - Indoor Air
49 Tufts Street
Somerville, Massachusetts

	Sample Location:	49 Tufts Street			
	Sample Name:	49TUFTS-1		49TUFTS-B	
	Sample Date:	9/6/2007		9/6/2007	
	Collected By:	GEI		GEI	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		1.0 J	0.16 J	0.94 J	0.15 J
1,2-Dichloroethane		0.45 J	0.11 J	< 0.81	< 0.20
Tetrachloroethylene (PCE)		1.8	0.27	1.8	0.27
1,1,1-Trichloroethane (TCA)		0.60 J	0.11 J	0.42 J	0.077 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-55b
Chemical Testing Results - Sub-Slab Soil Vapor
49 Tufts Street
Somerville, Massachusetts

	Sample Location:	49 Tufts Street	
	Sample Name:	49 TUFTS-SS1	
	Sample Date:	6/9/2007	
	Collected By:	GEI	
	Units:	µg/m³	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		1.1 J	0.17 J
Tetrachloroethylene (PCE)		43	6.4
1,1,1-Trichloroethane (TCA)		17	3.1

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-56a
Chemical Testing Results - Indoor Air
53 Tufts Street
Somerville, Massachusetts

	Sample Location:	53 Tufts Street			
	Sample Name:	53TUFTS-B		53TUFTS-B	
	Sample Date:	11/9/2007		2/15/2008	
	Collected By:	GEI		GEI	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.75 J	0.12 J	0.69 J	0.11 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-56b
Chemical Testing Results - Sub-Slab Soil Vapor
53 Tufts Street
Somerville, Massachusetts

	Sample Location:	53 Tufts Street			
	Sample Name:	53TUFTS-SS1		53TUFTS-SS2	
	Sample Date:	5/9/2007		5/9/2007	
	Collected By:	GEI		GEI	
	Units:	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		3.5	0.52	1.0 J	0.15 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-57a
Chemical Testing Results - Indoor Air
60 Tufts Street, Units #4, #10 and #16
Somerville, Massachusetts

	Sample Location:	60 Tufts Street #4							
	Sample Name:	60TUFTS-UNIT 4		60TUFTS-UNIT 4B		60TUFTS-UNIT 4-1		60TUFTS-UNIT 4B	
	Sample Date:	1/23/2007		1/23/2007		2/20/2008		2/20/2008	
	Collected By:	GEI		GEI		GEI		GEI	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.75 J	0.12 J	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	0.97	0.24	< 0.81	< 0.20
Tetrachloroethylene (PCE)		5.8	0.85	4.4	0.65	2.4	0.36	2.0	0.29
Trichloroethane,1,1,1- (TCA)		11	2.1	14	2.6	1.5	0.27	1.9	0.35

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-57a
Chemical Testing Results - Indoor Air
60 Tufts Street, Units #4, #10 and #16
Somerville, Massachusetts

	Sample Location:	**60 Tufts Street #10 & #16**			
	Sample Name:	**60TUFT-UNIT 10**		**60TUFT-UNIT 16**	
	Sample Date:	**3/6/2008**		**3/6/2008**	
	Collected By:	**GEI**		**GEI**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.61 J	0.097 J	< 1.3	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20
Tetrachloroethylene (PCE)		1.9	0.28	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		0.82 J	0.15 J	< 1.1	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-57b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

	Location Name:	60 Tufts Street, Unit4							
	Sample Name: Sample Date:	60TUFT-4-SS1 4/4/2007		60TUFT#4-SS1 11/9/2007		60TUFT-UNIT4-SS1 1/16/2008		60TUFT-UNIT4-SS1 1/17/2008	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 2.5	< 0.40	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 1.6	< 0.40	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 1.6	< 0.40	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 1.6	< 0.40	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		136	20	213	31.4	89.5	13.2	94.3	13.9
Trichloroethane,1,1,1- (TCA)		345	63.2	170	31.1	200	36.7	197	36.1
Trichloroethane,1,1,2-		< 2.2	< 0.40	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 2.1	< 0.40	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-57b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

	Location Name:	60 Tufts Street, Unit4 (continued)						60 Tufts Street	
	Sample Name:	60TUFT-UNIT4-SS1		60TUFT-4-SS2		60TUFT#4-SS2		60TUFT-SS1	
	Sample Date:	1/21/2008		4/4/2007		11/9/2007		4/4/2007	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	5.7	0.9
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	23	5.6
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	1.1	0.29
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	2580	650
Tetrachloroethylene (PCE)		117	17.2	29	4.3	63	9.3	104	15.4
Trichloroethane,1,1,1- (TCA)		234	42.9	181	33.1	237	43.4	18300	3360
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.2	0.22
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	159	29.5

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-57b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

	Location Name:	60 Tufts Street (continued)							
	Sample Name:	60TUFT-SS10		60TUFT-SS10		60TUFT-SS10		60TUFT-SS13	
	Sample Date:	1/16/2008		1/17/2008		1/21/2008		1/16/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	2.2	0.54
Dichloroethylene, cis-1,2-		1.3	0.33	0.67 J	0.17 J	1.3	0.32	< 0.79	< 0.20
Dichloroethylene,1,1-		3.7	0.93	1.4	0.35	2.7	0.68	40.8	10.3
Tetrachloroethylene (PCE)		895	132	504	74.3	692	102	237	34.9
Trichloroethane,1,1,1- (TCA)		14	2.5	5.1	0.94	9.3	1.7	3260 G	597 G
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		226 G	42.1 G	196	36.5	170	31.6	5.9	1.1

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-57b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

	Location Name:	60 Tufts Street (continued)							
	Sample Name:	60TUFT-SS13		60TUFT-SS13		60TUFT-SS14		60TUFT-SS14	
	Sample Date:	1/17/2008		1/21/2008		1/16/2008		1/17/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	1.1 J	0.18 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		1.3	0.32	2.6	0.64	1.2	0.3	0.89	0.22
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		23	5.7	49.6	12.5	26	6.5	15	3.8
Tetrachloroethylene (PCE)		249	36.7	214	31.6	2370	349	1970	291
Trichloroethane,1,1,1- (TCA)		1010	186	3100	568	2440 G	448 G	1310	241
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		4.6	0.86	8.1	1.5	160	29.8	152	28.3

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-57b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

	Location Name:	60 Tufts Street (continued)							
	Sample Name: Sample Date:	60TUFT-SS14 1/21/2008		60TUFT-SS16 1/16/2008		60TUFT-SS16 1/17/2008		60TUFT-SS16 1/21/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		1.5	0.36	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		35	8.9	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		2500	368	134	19.8	119	17.5	199	29.3
Trichloroethane,1,1,1- (TCA)		2240	410	79.7	14.6	14	2.5	72.6	13.3
Trichloroethane,1,1,2-		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		127	23.7	8.6	1.6	7	1.3	12	2.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-57b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

	Location Name:	60 Tufts Street Storage									
	Sample Name:	60TUFT-SS2		60TUFT-STORAGE5-SS2		60TUFT-STORAGES-SS2		60TUFT-STORAGES-SS2		60TUFT-SS3	
	Sample Date:	4/4/2007		1/16/2008		1/17/2008		1/21/2008		4/4/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 13	< 2.0	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	< 13	< 2.0
Dichloroethane,1,1-		< 8.1	< 2.0	2.8	0.7	< 0.81	< 0.20	1.1	0.28	5.3 J	1.3 J
Dichloroethylene, cis-1,2-		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 7.9	< 2.0
Dichloroethylene,1,1-		391	98.5	293	73.9	11	2.9	77.7	19.6	983	248
Tetrachloroethylene (PCE)		17	2.5	16	2.3	3.5	0.52	11	1.6	41	6
Trichloroethane,1,1,1- (TCA)		2970	544	2300	422	85.1	15.6	447	81.9	6060	1110
Trichloroethane,1,1,2-		< 11	< 2.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 11	< 2.0
Trichloroethylene (TCE)		28	5.2	25	4.6	4.4	0.82	16	2.9	109	20.2

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-57b
Chemical Testing Results - Soil Vapor Samples
60 Tufts Street
Somerville, Massachusetts

	Location Name:	60 Tufts Street MW202 Sub-slab							
	Sample Name:	SVT-MW202S		SVT-MW202S		SVT-MW202S		SVT-MW202S	
	Sample Date:	7/17/2007		1/16/2008		1/17/2008		1/21/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 25	< 4.0	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 16	< 4.0	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 16	< 4.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		11 J	2.8 J	0.79	0.2	0.48 J	0.12 J	0.56 J	0.14 J
Tetrachloroethylene (PCE)		2550	376	252	37.1	366	54.0	403	59.4
Trichloroethane,1,1,1- (TCA)		537	98.5	28	5.1	27	4.9	35	6.4
Trichloroethane,1,1,2-		< 22	< 4.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		253	47.0	11	2.0	11	2.0	15	2.7

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. "SVT-MW202S" samples were collected from monitoring well soil vapor ports as part of sub-slab soil vapor sampling.

Qualifying Notes:
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 7-58a
Chemical Testing Results - Indoor Air
85 Washington Street
Somerville, Massachusetts

	Sample Location:	85 Washington Street							
	Sample Name:	85WASH-1		85WASH-2		85WASH-PARK		85WASH-AUDI	
	Sample Date:	11/14/2007		11/14/2007		2/12/2008		2/12/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		0.69 J	0.11 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20
Tetrachloroethylene (PCE)		1.2 J	0.17 J	1.4	0.21	< 1.4	< 0.20	1.2 J	0.18 J

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-58b

Chemical Testing Results - Sub-Slab Soil Vapor
85 Washington Street
Somerville, Massachusetts

	Sample Location:	85 Washington Street	
	Sample Name:	85 Wash-SS2	
	Sample Date:	3/29/07	
	Units:	µg/m^3	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
1,2-Dichloroethane		0.53 J	0.13 J
Tetrachloroethylene (PCE)		1.0 J	0.15 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-59a

Chemical Testing Results - Indoor Air

97 Washington Street
Somerville, Massachusetts

	Sample Location:	97 Washington Street											
	Sample Name:	**97WASH1**		**97WASHB**		**97WASH-1**		**97WASH-B**		**97WASH-1**		**97WASH-B**	
	Sample Date:	**6/14/2007**		**6/14/2007**		**11/5/2007**		**11/5/2007**		**2/5/2008**		**2/5/2008**	
	Units:	**μg/m³**	**ppbv**	**μg/m³**	**ppbv**	**μg/m³**	**ppbv**	**μg/m³**	**ppbv**	**μg/m³**	**ppbv**	**μg/m³**	**ppbv**
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		0.69 J	0.11 J	0.69 J	0.11 J	0.60 J	0.096 J	0.63 J	0.10 J	< 1.3	< 0.20	< 1.3	< 0.20
Tetrachloroethylene (PCE)		1.1 JG	0.16 JG	1.4 G	2.0 G	1.5	0.22	1.7	0.25	1.1 J	0.16 J	0.95 J	0.14 J
1,1,1-Trichloroethane (TCA)		0.52 J	0.096 J	0.76 J	0.14 J	0.52 J	0.096 J	0.82 J	0.15 J	0.60 J	0.11 J	0.65 J	0.12 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.
G Duplicate precision outside control limits.

Table 7-59b

Chemical Testing Results - Sub-Slab Soil Vapor

97 Washington Street
Somerville, Massachusetts

	Sample Location:	97 Washington Street			
	Sample Name:	97 WASH-SS1		97WASH-SS2	
	Sample Date:	4/23/2007		4/23/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Tetrachloroethylene (PCE)		2.3	0.34	1.8 J	0.26 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-60a
Chemical Testing Results - Indoor Air
103 Washington Street
Somerville, Massachusetts

103 Washington Street - No Indoor Air Sampling

Table 7-60b
Chemical Testing Results - Sub-Slab Soil Vapor
103 Washington Street
Somerville, Massachusetts

	Sample Location:	103 Washington Street	
	Sample Name:	103WASH-SS1	
	Sample Date:	5/8/2007	
	Units:	µg/m³	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		0.69 J	0.11 J
trans-1,2-Dichloroethylene		0.95	0.24
cis-1,2-Dichloroethylene		15	3.7
Tetrachloroethylene (PCE)		2330	343
1,1,1-Trichloroethane (TCA)		1.0 J	0.19 J
Trichloroethylene (TCE)		85.5	15.9

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 7-61a
Chemical Testing Results - Indoor Air
105-107 Washington Street
Somerville, Massachusetts

105-107 Washington Street - No Indoor Air Sampling

Table 7-61b
Chemical Testing Results - Sub-Slab Soil Vapor
105-107 Washington Street
Somerville, Massachusetts

	Sample Location:	**105-107 Washington Street**			
	Sample Name:	**105WASH-SS1**		**105WASH-SS2**	
	Sample Date:	**5/8/2007**		**5/8/2007**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**				
Volatile Organic Compounds (VOCs)	TO-15				
Carbon tetrachloride		0.60 J	0.096 J	< 1.3	< 0.20
1,1-Dichloroethane		< 0.81	< 0.20	3.0	0.75
1,1-Dichloroethylene		< 0.79	< 0.20	0.99	0.25
cis-1,2-Dichloroethylene		< 0.79	< 0.20	58.3	14.7
Tetrachloroethylene (PCE)		40	5.9	479	70.6
1,1,1-Trichloroethane (TCA)		< 1.1	< 0.20	24	4.4
Trichloroethylene (TCE)		0.91 J	0.17 J	53	9.8
Vinyl Chloride		< 0.51	< 0.20	0.61	0.24

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-62a
Chemical Testing Results - Indoor Air
111 Washington Street
Somerville, Massachusetts

111 Washington Street - No Indoor Air Sampling

Table 7-62b

Chemical Testing Results - Sub-Slab Soil Vapor

111 Washington Street
Somerville, Massachusetts

	Sample Location:	**111 Washington Street**	
	Sample Name:	**111WASH-SS1**	
	Sample Date:	**6/20/2007**	
	Units:	**µg/m^3**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		1080	159
1,1,1-Trichloroethane (TCA)		18	3.3
Trichloroethylene (TCE)		87.6	16.3

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Table 7-63a
Chemical Testing Results - Indoor Air
121 Washington Street
Somerville, Massachusetts

	Sample Location:	121 Washington Street					
	Sample Name:	121WASH-1A		121WASH-1B		121WASH-1	
	Sample Date:	11/6/2007		11/6/2007		2/11/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**						
Volatile Organic Compounds (VOCs)	TO-15						
Carbon tetrachloride		0.82 J	0.13 J	0.88 J	0.14 J	0.69 J	0.11 J
Tetrachloroethylene (PCE)		1.5	0.22	1.4	0.20	< 1.4	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-63b

Chemical Testing Results - Sub-Slab Soil Vapor

121 Washington Street
Somerville, Massachusetts

	Sample Location:	121 Washington Street	
	Sample Name:	121 Wash-SS1	
	Sample Date:	4/11/07	
	Units:	µg/m^3	ppbv
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Tetrachloroethylene (PCE)		12	1.7
1,1,1-Trichloroethane (TCA)		0.51 J	0.093 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-64
Chemical Testing Results - Site Wide Outdoor Air Samples
50 Tufts Street
Somerville, Massachusetts

	Sample Name:	TUFTS-O-1A		TUFTS-O-1B		TUFTS-O-1A		TUFTS-O-1B		TUFTS-O-1A		TUFTS-O-1B		TUFTS-O-1A	
	Sample Date:	3/23/2006		3/24/2006		6/28/2006		6/28/2006		9/28/2006		10/2/2006		12/15/2006	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloromethane		1.1	0.53	1.1	0.55	1.2	0.57	1.4	0.7	NT	NT	NT	NT	NT	NT
Methylene chloride		1.2 B	0.35 B	0.97 B	0.28 B	1.3 B	0.37 B	3.0 B	0.86 B	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	1.2 J	0.18 J	8.1	1.2	< 1.4	< 0.20	< 1.4	< 0.20	0.88 J	0.13 J
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.65 J	0.12 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:
B The reported result is attributed to sampling or laboratory contamination.
J The reported result is below the laboratory reporting limit and is estimated.

Table 7-64

Chemical Testing Results - Site Wide Outdoor Air Samples

50 Tufts Street
Somerville, Massachusetts

	Sample Name:	TUFTS-O-1B		DELL-O-1A		DELL-O-1B		TUFTS-O-2A		TUFTS-O-2B		TUFTS-O-2A		TUFTS-O-2B	
	Sample Date:	12/18/2006		1/22/2007		1/23/2007		3/23/2006		3/24/2006		6/29/2006		6/29/2006	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	Method														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.82 J	0.13 J	0.69 J	0.11 J	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J
Chloromethane		NT	NT	NT	NT	NT	NT	1.3	0.62	1.3	0.61	1.8	0.89	1.4	0.66
Methylene chloride		NT	NT	NT	NT	NT	NT	1.9 B	0.56 B	0.83 B	0.24 B	5.9 B	1.7 B	5.6 B	1.6 B
Tetrachloroethylene (PCE)		2.7	0.4	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	2.4	0.36	5.4	0.8
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.1	0.21
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.91 J	0.17 J

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.

J The reported result is below the laboratory reporting limit and is estimated.

Table 7-64
Chemical Testing Results - Site Wide Outdoor Air Samples
50 Tufts Street
Somerville, Massachusetts

	Sample Name:	TUFTS-O-2A		TUFTS-O-2B		TUFTS-0-2A		TUFTS-0-2B		TUFTS-O-3A		TUFTS-O-4A		TUFTS-O-5A		TUFTS-O-6A	
	Sample Date:	9/28/2006		10/2/2006		12/15/2006		12/18/2006		10/2/2006		10/2/2006		10/2/2006		10/2/2006	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.60 J	0.095 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloromethane		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Methylene chloride		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Tetrachloroethylene (PCE)		< 1.4	< 0.20	1.6	0.24	2	0.3	2.8	0.41	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	0.76 J	0.14 J	< 1.1	< 0.20	0.98 J	0.18 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.59 J	0.11 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

B The reported result is attributed to sampling or laboratory contamination.

J The reported result is below the laboratory reporting limit and is estimated.

Table 8-1
Chemical Testing Results - Outdoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Outside of School by Room 126 Window						Outside of School by Day Care Window						Downwind on Roof							
Sample Name:		150 GLEN-0-1A		150 GLEN-0-1B		150 GLEN-0-1A		150 GLEN-0-2A		150 GLEN-0-2B		150 GLEN-0-2A		150 GLEN-ROOF B		150 GLEN-ROOF B		150GLEN-ROOF		150 GLEN-ROOF	
Sample Date:		12/27/06		12/28/06		1/6/07		12/27/06		12/28/06		1/6/07		2/8/07		2/8/07		3/8/07		4/20/07	
Units:		µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	Method																				
Volatile Organic Compounds (VOCs)	TO-15																				
Acetone		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.52 J J+	0.083 J J+	1.1 J	0.17 J	< 1.3	< 0.20	0.52 J J+	0.082 J J+	< 1.3	< 1.3	< 0.20	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.81	< 0.20	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.81	< 0.20	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.79	< 0.20	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Methyl ethyl ketone		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.79	< 0.20	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 1.4	< 0.20	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 1.4	< 0.20	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrahydrofuran		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Trichloroethane,1,1,1- (TCA)		< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 1.2	< 0.21	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 1.1	< 0.20	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = not tested.
6. The sample collected on August 9, 2007 is part of the July monthly sampling round. It was not collected at the same time (7/13/07) as the indoor air samples for the sampling round because of access issues.

Qualifying Notes:

B The target compound was present in the associated method blank.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-1

Chemical Testing Results - Outdoor Air

Capuano Center

50 Tufts Street

Somerville, Massachusetts

Sample Location:		Downwind on Roof (continued)																				Blower Effluent	
Sample Name:		150 GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-ROOF		150GLEN-EFFLUENT	
Sample Date:		5/17/07		8/9/07		9/10/07		10/14/07		11/14/07		12/17/07		1/21/08		2/19/08		3/17/08		4/21/08		2/8/07	
Units:		µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																						
Volatile Organic Compounds (VOCs)	TO-15																						
Acetone		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	45.4 B	19.1 B
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	24	6.0
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	15	3.8
Methyl ethyl ketone		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	380 J+	129 J+
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	10	2.6
Tetrachloroethane,1,1,2,2-		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	1.2 J	0.18 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	577 J+	85.1 J+
Tetrahydrofuran		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	571 J+	194 J+
Trichloroethane,1,1,1- (TCA)		< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	< 1.2	< 0.21	4.9	0.72
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	98.3	18.3

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = not tested.
6. The sample collected on August 9, 2007 is part of the July monthly sampling round. It was not collected at the same time (7/13/07) as the indoor air samples for the sampling round because of access issues.

Qualifying Notes:

B The target compound was present in the associated method blank.

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

Sample Location:		Cafetorium		Room 101				Room 108				Room 121		Room 122			
Sample Name:		150 GLEN-CAF		150 GLEN-ROOM 101A		150 GLEN-ROOM 101B		150 GLEN-ROOM 108A		150 GLEN-ROOM 108B		150 GLEN-ROOM 121		150 GLEN-ROOM 122		150 GLEN-RM 122	
Sample Date:		1/6/07		12/27/06		12/28/06		12/27/06		12/28/06		1/6/07		1/6/07		2/7/07	
Units:		μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.49 J J+	0.078 J J+	< 1.3	< 0.20	< 1.3	< 0.20	0.94 J	0.15 J	< 1.3	< 0.20	0.52 J J+	0.082 J J+	0.51 J	0.081 J J+	0.69 J	0.11 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		0.88 J J+	0.13 J J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 125				Room 126											
	Sample Name:	150 GLEN-ROOM 125A		150 GLEN-ROOM 125B		150 GLEN-ROOM 126		150 GLEN-ROOM 100 (FD)		150 GLEN-RM 126		150GLEN-ROOM 126		150 GLEN-ROOM 126		150 GLEN-RM 126	
	Sample Date:	12/27/06		12/28/06		1/13/07		1/13/07		2/7/07		3/8/07		4/20/07		5/17/07	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		1.0 J	0.16 J	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	0.94 J	0.15 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	0.88 J	0.13 J	0.75 J	0.11 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 126 (continued)															
	Sample Name:	150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126		150GLEN-RM126	
	Sample Date:	7/30/07		9/10/07		10/8/07		10/14/07		11/15/07		12/13/07		1/21/08		2/19/08	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.60 J	0.095 J	0.69 J	0.11 J	0.82 J	0.13 J	< 1.3	< 0.20	0.69 J	0.11 J	0.59 J	0.093 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	1.0 J	0.15 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	**Room 126 (continued)**						**Room 134**				**Room 136**		**Room 137**			
	Sample Name:	**150GLEN-RM126**		**150GLEN-RM126**		**150GLEN-RM126**		**150 GLEN-ROOM 134**		**150 GLEN-RM 134**		**150 GLEN-ROOM 136**		**150 GLEN-ROOM 137A**		**150 GLEN-ROOM 137B**	
	Sample Date:	**2/22/08**		**4/21/08**		**3/172008**		**1/13/07**		**2/7/07**		**1/13/07**		**1/6/07**		**1/6/07**	
	Units:	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.75 J	0.12 J	0.94 J	0.15 J	0.69 J	0.11 J	0.52 J J+	0.082 J J+	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	3.2	0.47	< 1.4	< 0.20	2.1	0.31	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.54 J	0.10 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 138															
	Sample Name:	150 GLEN-ROOM 138		150 GLEN-ROOM 138		150 GLEN-ROOM 138		150 GLEN-ROOM 138		150 GLEN-ROOM 138		150 GLEN-RM 138		150 GLEN-RM 139 (FD)		150GLEN-ROOM 138	
	Sample Date:	1/2/07		1/6/07		1/13/07		1/26/07		1/26/07		2/7/07		2/7/07		3/8/07	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	0.49 J J+	0.078 J J+	0.82 J	0.13 J	0.82 J	0.13 J	< 0.126	< 0.020	0.75 J	0.12 J	0.52 J	0.082 J	< 1.3	< 0.20
Dichloroethane,1,1-		0.45 J	0.11 J	0.77 J J+	0.19 J J+	0.57 J	0.14 J	0.65 J	0.16 J	< 0.081	< 0.020	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	2.1 J+	0.54 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.079	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.079	< 0.020	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	0.83 J+	0.21 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.0819	< 0.020	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		14	2	60 J+	8.8 J+	20	3	20	3	32.6	4.8	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.109	< 0.020	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		2.3	0.42	7 J+	1.3 J+	3.1	0.57	3.3	0.61	4.26	0.794	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 138 (continued)															
	Sample Name:	150GLEN-ROOM 139 (FD)		150 GLEN-ROOM 138		150GLEN-ROOM 139 (FD)		150 GLEN-RM 138		150GLEN-ROOM 139 (FD)		150GLEN-RM138		150GLEN-ROOM 139 (FD)		150GLEN-RM138	
	Sample Date:	3/8/07		4/20/07		4/20/07		5/17/07		5/17/07		7/30/07		7/30/07		9/10/07	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.61 J	0.097 J	0.69 J	0.11 J	0.69 J	0.11 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81 J+	< 0.20 J+
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79 J+	< 0.20 J+
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81 J+	< 0.20 J+
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79 J+	< 0.20 J+
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.2 J	0.17 J	1.1 J	0.16 J	< 1.4 J+	< 0.20 J+
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1 J+	< 0.20 J+
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1 J+	< 0.20 J+

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 138 (continued)															
	Sample Name:	150GLEN-ROOM 139 (FD)		150GLEN-RM138		150GLEN-RM139 (FD)		150GLEN-RM239 (FD)		150GLEN-RM238 (FD)		150GLEN-RM138		150GLEN-ROOM 139 (FD)		150GLEN-RM238 (FD)	
	Sample Date:	9/10/07		10/8/07		10/8/07		10/8/07		10/8/07		10/14/07		10/14/07		10/14/07	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.69 J	0.11 J	0.69 J	0.11 J	0.88 J	0.14 J	0.82 J	0.13 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.59 J	0.094 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		6.5	0.96	< 1.4	< 0.20	1.5	0.22	1.2 J	0.18 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 138 (continued)															
	Sample Name:	150GLEN-RM239 (FD)		150GLEN-RM138		150GLEN-RM139 (FD)		150GLEN-RM138		150GLEN-RM139 (FD)		150GLEN-RM138		150GLEN-RM139 (FD)		150GLEN-RM138	
	Sample Date:	10/14/07		11/15/07		11/15/07		12/13/07		12/13/07		1/21/08		1/21/08		2/19/08	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.62 J	0.099 J	0.69 J	0.11 J	0.69 J	0.11 J	0.57 J	0.091 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 138 (continued)														Room 141	
	Sample Name:	150GLEN-RM139 (FD)		150GLEN-RM138		150GLEN-RM139 (FD)		150GLEN-RM138		150GLEN-RM139 (FD)		150GLEN-RM138		150GLEN-RM139 (FD)		150 GLEN-ROOM 141	
	Sample Date:	2/19/08		2/22/08		2/22/08		3/17/08		3/17/08		4/21/08		4/21/08		1/6/07	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	0.69 J	0.11 J	0.45 J J+	0.071 J J+
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		1.8	0.27	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 141 (continued)															
	Sample Name:	150GLEN-ROOM 141		150 GLEN-ROOM 141		150 GLEN-RM 141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141	
	Sample Date:	3/8/07		4/20/07		5/17/07		7/30/07		9/10/07		10/8/07		10/14/07		11/15/07	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3 J+	< 0.20 J+	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4 J+	< 0.20 J+	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2

Chemical Testing Results - Indoor Air

Capuano Center

50 Tufts Street

Somerville, Massachusetts

	Sample Location:	Room 141 (continued)												Room 142			
	Sample Name:	150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		150GLEN-RM141		RM142		150 GLEN-ROOM 142	
	Sample Date:	12/13/07		1/21/08		2/19/08		2/22/08		3/17/08		4/21/08		1/2/07		1/6/07	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	0.52 J J+	0.083 J J+
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	1.4	0.35	1.2 J+	0.29 J+
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	0.87	0.22	2.5 J+	0.63 J+
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	28	4.1	45 J+	6.6 J+
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.33 J J+	0.061 J J+
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	3.7	0.69	5.4 J+	1 J+

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 142 (continued)															
	Sample Name:	150 GLEN-RM 142		150GLEN-ROOM 142		150 GLEN-ROOM 142		150 GLEN-RM 142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142	
	Sample Date:	2/7/07		3/8/07		4/20/07		5/17/07		7/30/07		9/10/07		10/8/07		10/14/07	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.82 J	0.13 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	1.0	0.25	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 142 (continued)													
	Sample Name:	150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142		150GLEN-RM142	
	Sample Date:	11/15/07		12/13/07		1/21/08		2/19/08		2/22/08		3/17/08		4/21/08	
Analyte	**Method** Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	0.69 J	0.11 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

J+ The reported result is estimated.

Table 8-2
Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 144				Room 145		Room 146									
	Sample Name:	150 GLEN-ROOM 144		150 GLEN-ROOM 144		150 GLEN-ROOM 145		150 GLEN-ROOM 146A		150 GLEN-ROOM 146B		150 GLEN-ROOM 146B (FD)		RM146		150 GLEN-ROOM 146	
	Sample Date:	1/13/07		1/13/07		1/6/07		12/27/06		12/28/06		12/28/06		1/2/07		1/6/07	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.88 J	0.14 J	< 3.14	< 0.50	0.45 J J+	0.071 J J+	1.1 J	0.18 J	< 1.3	< 0.20	0.49 J	0.078 J	0.63 J	0.10 J	< 1.3	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 2.02	< 0.50	< 0.81	< 0.20	10	2.5	3.6	0.88	3.3	0.82	0.53 J	0.13 J	0.57 J J+	0.14 J J+
Dichloroethylene,1,1-		< 0.79	< 0.20	< 1.98	< 0.50	< 0.79	< 0.20	7.9	2.0	4.0	1.0	3.9	0.99	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 1.98	< 0.50	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 2.02	< 0.50	< 0.79	< 0.20	3.3	0.83	1.3	0.33	1.2	0.31	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		4.1	0.61	4.36	0.643	< 1.4	< 0.20	186	27.5	83.4	12.3	85.4	12.6	11	1.6	26 J+	3.8 J+
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 2.72	< 0.50	< 1.1	< 0.20	2.1	0.38	0.82 J	0.15 J	0.71 J	0.13 J	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		1.3	0.24	< 2.68	< 0.50	< 1.1	< 0.20	37	6.8	10	1.9	11	2.1	1.7	0.32	3.0 J+	0.56 J+

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2

Chemical Testing Results - Indoor Air

Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 146 (continued)															
	Sample Name:	150 GLEN-RM 146		150GLEN-ROOM 146		150 GLEN-ROOM 146		150 GLEN-RM 146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146	
	Sample Date:	2/7/07		3/8/07		4/20/07		5/17/07		7/30/07		9/10/07		10/8/07		10/14/07	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	Method																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.62 J	0.099 J	0.82 J	0.13 J	< 1.3	< 0.20	0.58 J	0.092 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 2.0	< 0.50	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	1.0 J	0.15 J	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 8-2

Chemical Testing Results - Indoor Air
Capuano Center
50 Tufts Street
Somerville, Massachusetts

	Sample Location:	Room 146 (continued)													
	Sample Name:	150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146		150GLEN-RM146	
	Sample Date:	11/15/07		12/13/07		1/21/08		2/19/08		2/22/08		3/17/08		4/21/08	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.62 J	0.098 J	< 1.3	< 0.20	0.75 J	0.12 J
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. (FD) = Field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 9-1
Chemical and Physical Properties of Site-Specific Chlorinated VOCs
50 Tufts Street
Somerville, Massachusetts

Oil and/or Hazardous Material	Vapor Pressure, 20°C (mmHg)	Solubility in Water, 25°C (mg/l)	Henry's Law Constant, 25°C (atm-m^3/mol)	Log K_{ow}	Log K_{oc}	Molecular Weight (g/mole)	Liquid Density, 20°C (g/cm^3)	Odor Threshold, Air (ppm)
Volatile Organic Compounds (VOCs)								
Chloroform	160	7430	4.06E-03	1.97	1.65/2.40	119.38	1.48	85
Dichloroethane 1,1-	182	5040 [d]	5.62E-03 [d]	1.79	1.76	98.97	1.1747	120
Dichloroethane 1,2	79.1 [a]	8600 [d]	1.1 E-03 [c]	1.48	1.62	98.96	1.23	12
Dichloroethylene, 1,1-	500	2500	1.90E-01	1.32	1.81	96.95	1.213	500
Dichloroethylene, cis 1,2-	180	6410 [d]	4.08E-03	1.86	1.69 [b]	96.95	1.2837	NA
Dichloroethylene, trans 1,2-	331 [a,d]	4520 [d]	9.38E-03	2.09	1.56 [b]	96.95	1.2565	0.084
Methylene chloride	435 [a,d]	16700	2.03E-03	1.3	1.4	84.93	1.3182	160-620
Tetrachloroethane, 1,1,2,2-	4.62 [a]	2830	3.67E-04	2.39	216	167.85	1.6	1.5
Tetrachloroethylene (PCE)	18.47 [a]	200	1.87E-02 [f]	3.4	2.19 [f]	165.83	1.62 [e]	1.0
Trichloroethane, 1,1,1- (TCA)	124	1330	1.75E-02 [f]	2.49	2.04 [f]	133.4	1.35 [e]	120
Trichloroethylene (TCE)	74 [a]	1100	1.05E-02 [f]	2.42	1.97 [f]	131.4	1.46 [e]	100
Vinyl chloride	2530	2763	2.78E-02	1.36	1.99	62.5	0.9106	3000

General Notes:

1. °C = degrees celcius.
2. mmHg = millimeters of mercury.
3. mg/l = milligrams per liter.
4. atm-m^3/mol = atmosphere-cubic meter per mole.
5. K_{ow} = octanol-water partition coefficient.
6. K_{oc} = organic carbon partition coefficient.
7. g/mole = gram per mole.
8. g/cm^3 = grams per cubic centimeter.
9. ppm = parts per million
10. NA = Not Available/Not Applicable.
11. Physical and chemical properties of VOCs obtained from Agency for Toxic Substances and Disease Registry (ASTDR) online database. Dates of reports of properties range from December 1990 to July 2006.

Footnotes:

(a) Vapor pressure at 25°C.
(b) Value is estimated.
(c) Henry's Law Constant at 20°C.
(d) Property obtained from Syracuse Research Corporation (SYRRES) on-line database, copyright 1999.
(e) Property obtained from Pankow and Cherry, 1996. Chlorinated Solvents and Other DNAPLs in Groundwater. Waterloo Press, Portland, OR.
(f) Property obtained from the Texas Risk Reduction Program, 2005. Table of chemical and physical properties.

Table 11-1a
Risk Characterization Data - Soil
Property Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	50 Tufts Street				
		Sample Name:	50TUFT-SOIL1	50TUFT-SOIL2	50TUFT-SOIL3	50TUFT-SOIL4	50TUFT-SOIL5
		Sample Depth (ft):	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2
		Sample Date:	2/26/2008	2/26/2008	2/26/2008	2/26/2008	2/26/2008
Analyte	**Method**	**Units**					
Volatile Organic Compounds (VOCs)							
Carbon tetrachloride	8260	mg/kg	< 0.091	< 0.092	< 0.099	< 0.099	< 0.096
Chloroethane			< 0.23	< 0.23	< 0.25	< 0.25	< 0.24
Chloroform			NT	NT	NT	NT	NT
Dichloroethane,1,1-			< 0.091	< 0.092	< 0.099	< 0.099	< 0.096
Dichloroethylene, cis-1,2-			< 0.091	< 0.092	< 0.099	< 0.099	< 0.096
Dichloroethylene,1,1-			< 0.091	< 0.092	< 0.099	< 0.099	< 0.096
Tetrachloroethylene (PCE)			10.4	0.0734 J	0.326	43.2	1.51
Trans-1,2-Dichloroethylene			< 0.091	< 0.092	< 0.099	< 0.099	< 0.096
Trichloroethane,1,1,1- (TCA)			0.716	< 0.092	< 0.099	< 0.099	< 0.096
Trichloroethylene (TCE)			0.123	< 0.092	< 0.099	0.0529 J	< 0.096
Vinyl chloride			< 0.091	< 0.092	< 0.099	< 0.099	< 0.096

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 11-1b
Risk Characterization Data - Soil
60 Tufts Street Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	MW201	MW202
		Sample Name:	MW201-GP3(11-13')	MW202-GP3 (13-15')
		Sample Depth (ft):	11 to 13	13 to 15
		Sample Date:	7/11/2007	7/10/2007
Analyte	**Method**	**Units**		
Volatile Organic Compounds (VOCs)				
Carbon tetrachloride	8260	mg/kg	< 0.095	< 0.096
Chloroethane			< 0.24	< 0.24
Chloroform			NT	NT
Dichloroethane,1,1-			< 0.095	< 0.096
Dichloroethylene, cis-1,2-			< 0.095	< 0.096
Dichloroethylene,1,1-			< 0.095	< 0.096
Tetrachloroethylene (PCE)			0.178	< 0.096
Trans-1,2-Dichloroethylene			< 0.095	< 0.096
Trichloroethane,1,1,1- (TCA)			< 0.095	< 0.096
Trichloroethylene (TCE)			0.0344 J	< 0.096
Vinyl chloride			< 0.095	< 0.096

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 11-1c
Risk Characterization Data - Soil
Tufts Street and MBTA Railroad Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	GEO-4	MW109			27 Tufts Street
		Sample Name:	GEO-4	B109-VAC-	B109 (7-9')	B109 (13-15')	27TUFT-SOIL
		Sample Depth (ft):	11 to 13	3 to 3	7 to 9	13 to 15	0 to 2
		Sample Date:	8/12/2004	1/3/2007	1/5/2007	1/5/2007	2/19/2008
Analyte	**Method**	**Units**					
Volatile Organic Compounds (VOCs)							
Carbon tetrachloride	8260	mg/kg	< 0.0556	< 0.1	< 0.088	< 0.075	< 0.16
Chloroethane			< 0.111	< 0.26	< 0.22	< 0.19	< 0.4
Chloroform			< 0.0556	< 0.1	< 0.088	< 0.075	NT
Dichloroethane,1,1-			< 0.0556	< 0.1	< 0.088	< 0.075	< 0.16
Dichloroethylene, cis-1,2-			< 0.0556	< 0.1	< 0.088	< 0.075	< 0.16
Dichloroethylene,1,1-			< 0.0556	< 0.1	< 0.088	< 0.075	< 0.16
Tetrachloroethylene (PCE)			0.111	0.324	< 0.088	0.242	< 0.16
Trans-1,2-Dichloroethylene			< 0.0556	< 0.1	< 0.088	< 0.075	< 0.16
Trichloroethane,1,1,1- (TCA)			0.0795	< 0.1	< 0.088	< 0.075	< 0.16
Trichloroethylene (TCE)			< 0.0556	< 0.1	< 0.088	< 0.075	< 0.16
Vinyl chloride			< 0.0556	< 0.1	< 0.088	< 0.075	< 0.16

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.

Table 11-1d
Risk Characterization Data - Soil
Alston Street Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	**MW105**	**MW114**		**MW115**	**10 Alston Street**
		Sample Name:	**MW105S1**	**MW114 (2'-4')**	**MW114 (11'-13')**	**MW115 (2'-4')**	**10ALST-SOIL**
		Sample Depth (ft):	**2 to 3**	**2 to 4**	**11 to 13**	**2 to 4**	**0 to 2**
		Sample Date:	**4/28/2006**	**2/13/2007**	**2/15/2007**	**2/13/2007**	**2/19/2008**
Analyte	**Method**	**Units**					
Volatile Organic Compounds (VOCs)							
Carbon tetrachloride	8260	mg/kg	< 0.15	< 0.11	< 0.09	< 0.13	< 0.17
Chloroethane			< 0.38	< 0.28	< 0.22	< 0.31	< 0.41
Chloroform			< 0.15	< 0.11	< 0.09	< 0.13	NT
Dichloroethane,1,1-			< 0.15	< 0.11	< 0.09	< 0.13	< 0.17
Dichloroethylene, cis-1,2-			< 0.15	< 0.11	< 0.09	< 0.13	< 0.17
Dichloroethylene,1,1-			< 0.15	< 0.11	< 0.09	< 0.13	< 0.17
Tetrachloroethylene (PCE)			< 0.15	< 0.11	< 0.09	< 0.13	< 0.17
Trans-1,2-Dichloroethylene			< 0.15	< 0.11	< 0.09	< 0.13	< 0.17
Trichloroethane,1,1,1- (TCA)			< 0.15	< 0.11	< 0.09	< 0.13	< 0.17
Trichloroethylene (TCE)			< 0.15	< 0.11	< 0.09	< 0.13	< 0.17
Vinyl chloride			< 0.15	< 0.11	< 0.09	< 0.13	< 0.17

General Notes:
1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.

Table 11-1e
Risk Characterization Data - Soil
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	150 Glen Street		MW101		MW102		MW103			MW106	
		Sample Name:	GARDEN-2 (2'-2.5')	GARDEN-1 (2'-2.5')	MW101S1	MW101S4	MW102S1	MW102S5	MW103S1	MW103S2	MW103S6	B106 (12-14')	B106-VAC-GRAB
		Sample Depth (ft):	0 to 2.5	0 to 2.5	2 to 3	13.5 to 15.5	2 to 3	12.5 to 14.6	2 to 3	6 to 8	14 to 16	12 to 14	3 to 3
		Sample Date:	3/30/2007	3/30/2007	4/27/2006	5/1/2006	4/27/2006	5/1/2006	4/27/2006	5/1/2006	5/1/2006	1/5/2007	1/3/2007
Analyte	**Method**	**Units**											
Volatile Organic Compounds (VOCs)													
Carbon tetrachloride	8260	mg/kg	< 0.099	< 0.098	< 0.13	< 0.1	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.087	< 0.11
Chloroethane			< 0.25	< 0.24	< 0.33	< 0.25	< 0.29	< 0.21	< 0.3	< 0.23	< 0.21	< 0.22	< 0.29
Chloroform			NT	NT	< 0.13	< 0.1	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.087	< 0.11
Dichloroethane,1,1-			< 0.099	< 0.098	< 0.13	< 0.1	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.087	< 0.11
Dichloroethylene, cis-1,2-			< 0.099	< 0.098	< 0.13	< 0.1	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.087	< 0.11
Dichloroethylene,1,1-			< 0.099	< 0.098	< 0.13	< 0.1	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.087	< 0.11
Tetrachloroethylene (PCE)			< 0.099	< 0.098	0.989	0.0649 J	< 0.12	0.164	< 0.12	< 0.091	0.722	< 0.087	< 0.11
Trans-1,2-Dichloroethylene			< 0.099	< 0.098	< 0.13	< 0.1	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.087	< 0.11
Trichloroethane,1,1,1- (TCA)			< 0.099	< 0.098	0.0767 J	< 0.1	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.087	< 0.11
Trichloroethylene (TCE)			< 0.099	< 0.098	0.358	< 0.1	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.087	< 0.11
Vinyl chloride			< 0.099	< 0.098	< 0.13	< 0.1	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.087	< 0.11

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.
5. FD = field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

F+ The result has a high bias due to matix spike recovery above upper control limits.

Table 11-1e

Risk Characterization Data - Soil

Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

Location Name:			MW110				MW111			MW112		MW112A		MW116
Sample Name:			B110-VAC-GRAB	B110 (7-9')	B100 (FD)	B110 (13-14')	B111-VAC-GRAB	B111 (7-9')	B111 (13-15')	B112-VAC-GRAB	B112 (6-7')	B112A (0-3')	B112A (10-12')	B116 (0-3')
Sample Depth (ft):			3 to 3	7 to 9	7 to 9	13 to 14	3 to 3	7 to 9	13 to 15	3 to 3	6 to 7	0 to 3	10 to 12	0 to 3
Sample Date:			1/4/2007	1/8/2007	1/8/2007	1/8/2007	1/4/2007	1/8/2007	1/8/2007	1/4/2007	1/8/2007	3/10/2007	3/10/2007	3/10/2007
Analyte	Method	Units												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	mg/kg	< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081	< 0.13
Chloroethane			< 0.25	< 0.29	< 0.27	< 0.23	< 0.22	< 0.26	< 0.19	< 0.27	< 0.28	< 0.31	< 0.2	< 0.32
Chloroform			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081	< 0.13
Dichloroethane,1,1-			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	0.13 J	< 0.081	< 0.13
Dichloroethylene, cis-1,2-			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081	< 0.13
Dichloroethylene,1,1-			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081	< 0.13
Tetrachloroethylene (PCE)			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	3.15	0.11 F+	< 0.11	0.13 J	0.0471 J	< 0.13
Trans-1,2-Dichloroethylene			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081	< 0.13
Trichloroethane,1,1,1- (TCA)			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081	< 0.13
Trichloroethylene (TCE)			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	0.0469 J	< 0.11	< 0.11	< 0.13	< 0.081	< 0.13
Vinyl chloride			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081	< 0.13

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.
5. FD = field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

F+ The result has a high bias due to matix spike recovery above upper control limits.

Table 11-1e
Risk Characterization Data - Soil
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	MW118D	MW120D		SB121A	MW121D			MW122		13 Morton Street
		Sample Name:	B118D-S2	B120-S3	B120-S7	MW-121A-Vac1	MW121D-VAC1	MW121D-VAC2	MW121D-S3	B122-S1	B122-S3	13MORT-SO
		Sample Depth (ft):	10 to 12	4 to 6	14 to 16	0 to 3	1 to 3	3 to 5	10 to 12	6 to 8	10 to 12	0 to 2
		Sample Date:	6/25/2007	8/8/2007	8/8/2007	10/5/2007	10/5/2007	10/5/2007	10/6/2007	1/23/2008	1/24/2008	2/7/2008
Analyte	**Method**	**Units**										
Volatile Organic Compounds (VOCs)												
Carbon tetrachloride	8260	mg/kg	< 0.12	< 0.1	< 0.12	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11	< 0.14
Chloroethane			< 0.3	< 0.25	< 0.29	< 0.24	< 0.27	< 0.32	< 0.33	< 0.27	< 0.27	< 0.36
Chloroform			< 0.12	< 0.1	< 0.12	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11	< 0.14
Dichloroethane,1,1-			< 0.12	< 0.1	< 0.12	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11	< 0.14
Dichloroethylene, cis-1,2-			< 0.12	< 0.1	< 0.12	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11	< 0.14
Dichloroethylene,1,1-			< 0.12	< 0.1	< 0.12	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11	< 0.14
Tetrachloroethylene (PCE)			0.233	< 0.1	< 0.12	< 0.097	< 0.11	< 0.13	< 0.13	0.0257 J	< 0.11	< 0.14
Trans-1,2-Dichloroethylene			< 0.12	< 0.1	< 0.12	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11	< 0.14
Trichloroethane,1,1,1- (TCA)			< 0.12	< 0.1	< 0.12	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11	< 0.14
Trichloroethylene (TCE)			< 0.12	< 0.1	< 0.12	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11	< 0.14
Vinyl chloride			< 0.12	< 0.1	< 0.12	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11	< 0.14

General Notes:
1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.
5. FD = field duplicate sample.

Qualifying Notes:
J The reported result is below the laboratory reporting limit and is estimated.
F+ The result has a high bias due to matix spike recovery above upper control limits.

Table 11-1e
Risk Characterization Data - Soil
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	163 Glen Street	19 Knowlton Street	29 Knowlton Street	35-37 Knowlton Street	4 Morton Street	74 Franklin Street	82 Franklin Street	95R Franklin Street		
		Sample Name:	163GLEN-SOIL	19KNOW-SOIL	29KNOW-SOIL	35-37KNOW-SOIL	4MORT-SO	74FRANK-SOIL	82FRANK-SOIL	95RBACK SOIL-1	95RBACK SOIL-5-7	95RFRONT SOIL-1
		Sample Depth (ft):	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2	0 to 2	0 to 3	5 to 7	0 to 3
		Sample Date:	2/19/2008	3/11/2008	2/21/2008	2/19/2008	2/7/2008	2/21/2008	3/6/2008	1/8/2008	1/8/2008	1/9/2008
Analyte	**Method**	**Units**										
Volatile Organic Compounds (VOCs)												
Carbon tetrachloride	8260	mg/kg	< 0.12	< 0.13	< 0.12	< 0.15	< 0.1	< 0.13	< 0.13	< 0.16	< 0.18	< 0.13
Chloroethane			< 0.31	< 0.33	< 0.3	< 0.37	< 0.26	< 0.31	< 0.32	< 0.41	< 0.46	< 0.33
Chloroform			NT	NT	NT	NT	< 0.1	NT	NT	NT	NT	NT
Dichloroethane,1,1-			< 0.12	< 0.13	< 0.12	< 0.15	< 0.1	< 0.13	< 0.13	< 0.16	< 0.18	< 0.13
Dichloroethylene, cis-1,2-			< 0.12	< 0.13	< 0.12	< 0.15	< 0.1	< 0.13	< 0.13	< 0.16	< 0.18	< 0.13
Dichloroethylene,1,1-			< 0.12	< 0.13	< 0.12	< 0.15	< 0.1	< 0.13	< 0.13	< 0.16	< 0.18	< 0.13
Tetrachloroethylene (PCE)			< 0.12	< 0.13	< 0.12	< 0.15	0.537	< 0.13	< 0.13	< 0.16	< 0.18	< 0.13
Trans-1,2-Dichloroethylene			< 0.12	< 0.13	< 0.12	< 0.15	< 0.1	< 0.13	< 0.13	< 0.16	< 0.18	< 0.13
Trichloroethane,1,1,1- (TCA)			< 0.12	< 0.13	< 0.12	< 0.15	< 0.1	< 0.13	< 0.13	< 0.16	< 0.18	< 0.13
Trichloroethylene (TCE)			< 0.12	< 0.13	< 0.12	< 0.15	< 0.1	< 0.13	< 0.13	< 0.16	< 0.18	< 0.13
Vinyl chloride			< 0.12	< 0.13	< 0.12	< 0.15	< 0.1	< 0.13	< 0.13	< 0.16	< 0.18	< 0.13

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.
5. FD = field duplicate sample.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
F+ The result has a high bias due to matix spike recovery above upper control limits.

Table 11-1e
Risk Characterization Data - Soil
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	95R Franklin Street (continued)									
		Sample Name:	95RFRONT SOIL-7-8	95RFRANK-EASTFILL	95RFRANK-EASTSILT	95FRANK-NORTH FILL	95FRANK-NORTH SILT	95FRANK-SOUTH FILL	95FRANK-SOUTH SILT	95RFRANK-WESTFILL	95RFRANK-WESTSILT	95RSUBSOIL
		Sample Depth (ft):	7 to 8	0 to 0.5	0.5 to 1	0 to 0.5	0.5 to 1	0 to 0.5	0.5 to 1	0 to 0.5	0.5 to 1	0 to 1
		Sample Date:	1/9/2008	12/14/2007	12/14/2007	12/11/2007	12/11/2007	12/11/2007	12/11/2007	12/14/2007	12/14/2007	12/5/2007
Analyte	**Method**	**Units**										
Volatile Organic Compounds (VOCs)												
Carbon tetrachloride	8260	mg/kg	< 0.25	< 0.2	< 0.19	< 0.19	< 0.17	< 0.26	< 0.17	< 0.24	< 0.16	< 0.21
Chloroethane			< 0.63	< 0.51	< 0.49	< 0.47	< 0.42	< 0.65	< 0.41	< 0.6	< 0.39	< 0.53
Chloroform			NT	< 0.2	< 0.19	< 0.19	< 0.17	< 0.26	< 0.17	< 0.24	< 0.16	< 0.21
Dichloroethane,1,1-			< 0.25	0.43	< 0.19	< 0.19	< 0.17	< 0.26	< 0.17	< 0.24	< 0.16	0.107 J
Dichloroethylene, cis-1,2-			< 0.25	0.0969 J	< 0.19	< 0.19	< 0.17	0.674	< 0.17	0.132 J	< 0.16	0.772
Dichloroethylene,1,1-			< 0.25	0.106 J	< 0.19	< 0.19	< 0.17	0.491	< 0.17	< 0.24	< 0.16	0.184 J
Tetrachloroethylene (PCE)			< 0.25	46.2	3.34	1.14	< 0.17	58.9	0.0381 J	5.64	< 0.16	42.1
Trans-1,2-Dichloroethylene			< 0.25	< 0.2	< 0.19	< 0.19	< 0.17	< 0.26	< 0.17	< 0.24	< 0.16	< 0.21
Trichloroethane,1,1,1- (TCA)			< 0.25	0.0476 J	< 0.19	< 0.19	< 0.17	< 0.26	< 0.17	< 0.24	< 0.16	0.0604 J
Trichloroethylene (TCE)			< 0.25	2.16	0.319	0.268	< 0.17	6.17	< 0.17	0.66	< 0.16	3.31
Vinyl chloride			< 0.25	< 0.2	< 0.19	< 0.19	< 0.17	< 0.26	< 0.17	< 0.24	< 0.16	< 0.21

General Notes:
1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.
5. FD = field duplicate sample.

Qualifying Notes:
J The reported result is below the laboratory reporting limit and is estimated.
F+ The result has a high bias due to matix spike recovery above upper control limits.

Table 11-1f

Risk Characterization Data - Soil

Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	GEO-4	MW102		MW103			MW105	MW106		MW109		
		Sample Name:	GEO-4 (11-13)	MW102S1	MW102S5	MW103S1	MW103S2	MW103S6	MW105S1	B106 (12-14')	B106-VAC-GRAB	B109-VAC-GRAB	B109 (7-9')	B109 (13-15')
		Sample Depth (ft):	11 to 13	2 to 3	12.5 to 14.6	2 to 3	6 to 8	14 to 16	2 to 3	12 to 14	3 to 3	3 to 3	7 to 9	13 to 15
		Sample Date:	8/12/2004	4/27/2006	5/1/2006	4/27/2006	5/1/2006	5/1/2006	4/28/2006	1/5/2007	1/3/2007	1/3/2007	1/5/2007	1/5/2007
Analyte	**Method**	**Units**												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	mg/kg	< 0.0556	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.15	< 0.087	< 0.11	< 0.1	< 0.088	< 0.075
Chloroethane			< 0.111	< 0.29	< 0.21	< 0.3	< 0.23	< 0.21	< 0.38	< 0.22	< 0.29	< 0.26	< 0.22	< 0.19
Chloroform			< 0.0556	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.15	< 0.087	< 0.11	< 0.1	< 0.088	< 0.075
Dichloroethane,1,1-			< 0.0556	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.15	< 0.087	< 0.11	< 0.1	< 0.088	< 0.075
Dichloroethylene, cis-1,2-			< 0.0556	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.15	< 0.087	< 0.11	< 0.1	< 0.088	< 0.075
Dichloroethylene,1,1-			< 0.0556	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.15	< 0.087	< 0.11	< 0.1	< 0.088	< 0.075
Tetrachloroethylene (PCE)			0.111	< 0.12	0.164	< 0.12	< 0.091	0.722	< 0.15	< 0.087	< 0.11	0.324	< 0.088	0.242
Trans-1,2-Dichloroethylene			< 0.0556	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.15	< 0.087	< 0.11	< 0.1	< 0.088	< 0.075
Trichloroethane,1,1,1- (TCA)			0.0795	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.15	< 0.087	< 0.11	< 0.1	< 0.088	< 0.075
Trichloroethylene (TCE)			< 0.0556	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.15	< 0.087	< 0.11	< 0.1	< 0.088	< 0.075
Vinyl chloride			< 0.0556	< 0.12	< 0.083	< 0.12	< 0.091	< 0.082	< 0.15	< 0.087	< 0.11	< 0.1	< 0.088	< 0.075

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.
5. FD = field duplicate sample.

Qualifying Notes:

F+ The result has a high bias due to matix spike recovery above upper control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 11-1f
Risk Characterization Data - Soil
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	MW110				MW111			MW112		MW112A	
		Sample Name:	B110-VAC-GRAB	B110 (7-9')	B100 (FD)	B110 (13-14')	B111-VAC-GRAB	B111 (7-9')	B111 (13-15')	B112-VAC-GRAB	B112 (6-7')	B112A (0-3')	B112A (10-12')
		Sample Depth (ft):	3 to 3	7 to 9	7 to 9	13 to 14	3 to 3	7 to 9	13 to 15	3 to 3	6 to 7	0 to 3	10 to 12
		Sample Date:	1/4/2007	1/8/2007	1/8/2007	1/8/2007	1/4/2007	1/8/2007	1/8/2007	1/4/2007	1/8/2007	3/10/2007	3/10/2007
Analyte	**Method**	**Units**											
Volatile Organic Compounds (VOCs)													
Carbon tetrachloride	8260	mg/kg	< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081
Chloroethane			< 0.25	< 0.29	< 0.27	< 0.23	< 0.22	< 0.26	< 0.19	< 0.27	< 0.28	< 0.31	< 0.2
Chloroform			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081
Dichloroethane,1,1-			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	0.13 J	< 0.081
Dichloroethylene, cis-1,2-			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081
Dichloroethylene,1,1-			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081
Tetrachloroethylene (PCE)			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	3.15	0.11 F+	< 0.11	0.13 J	0.0471 J
Trans-1,2-Dichloroethylene			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081
Trichloroethane,1,1,1- (TCA)			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081
Trichloroethylene (TCE)			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	0.0469 J	< 0.11	< 0.11	< 0.13	< 0.081
Vinyl chloride			< 0.1	< 0.11	< 0.11	< 0.092	< 0.087	< 0.1	< 0.075	< 0.11	< 0.11	< 0.13	< 0.081

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.
5. FD = field duplicate sample.

Qualifying Notes:

F+ The result has a high bias due to matix spike recovery above upper control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 11-1f
Risk Characterization Data - Soil
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Location Name:	MW114		MW115	SB121A	MW121D			MW122	
		Sample Name:	MW114 (2'-4')	MW114 (11'-13')	MW115 (2'-4')	MW-121A-Vac1	MW121D-VAC1	MW121D-VAC2	MW121D-S3	B122-S1	B122-S3
		Sample Depth (ft):	2 to 4	11 to 13	2 to 4	0 to 3	1 to 3	3 to 5	10 to 12	6 to 8	10 to 12
		Sample Date:	2/13/2007	2/15/2007	2/13/2007	10/5/2007	10/5/2007	10/5/2007	10/6/2007	1/23/2008	1/24/2008
Analyte	**Method**	**Units**									
Volatile Organic Compounds (VOCs)											
Carbon tetrachloride	8260	mg/kg	< 0.11	< 0.09	< 0.13	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11
Chloroethane			< 0.28	< 0.22	< 0.31	< 0.24	< 0.27	< 0.32	< 0.33	< 0.27	< 0.27
Chloroform			< 0.11	< 0.09	< 0.13	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11
Dichloroethane,1,1-			< 0.11	< 0.09	< 0.13	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11
Dichloroethylene, cis-1,2-			< 0.11	< 0.09	< 0.13	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11
Dichloroethylene,1,1-			< 0.11	< 0.09	< 0.13	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11
Tetrachloroethylene (PCE)			< 0.11	< 0.09	< 0.13	< 0.097	< 0.11	< 0.13	< 0.13	0.0257 J	< 0.11
Trans-1,2-Dichloroethylene			< 0.11	< 0.09	< 0.13	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11
Trichloroethane,1,1,1- (TCA)			< 0.11	< 0.09	< 0.13	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11
Trichloroethylene (TCE)			< 0.11	< 0.09	< 0.13	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11
Vinyl chloride			< 0.11	< 0.09	< 0.13	< 0.097	< 0.11	< 0.13	< 0.13	< 0.11	< 0.11

General Notes:
1. Only analytes used in the risk characterization are reported here.
2. "<" = The analyte was not detected at a concentration above the specified reporting limit.
3. mg/kg = milligrams per kilogram.
4. NT = not tested.
5. FD = field duplicate sample.

Qualifying Notes:
F+ The result has a high bias due to matix spike recovery above upper control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 11-2a
Risk Characterization Data - Groundwater
Property Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	GEO-1				GEO-2		MW-1		MW104				
		Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	unknown	unknown	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15
		Sample Date:	1/17/2007	1/17/2007 (FD)	4/12/2007	4/15/08	1/17/2007	4/12/2007	1/17/2007	4/17/2007	4/13/2007	7/19/2007	10/15/2007	1/11/2008	4/15/08
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**													
Volatile Organic Compounds (VOCs)															
Carbon tetrachloride	8260	µg/l	2.3	2.3	5.4	< 1.0	< 5.0	< 1.0	22.4	< 500	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 10	< 2.0	< 2.0	< 1000	4.7	6.9	5.6	2.3	< 2.0
Chloroform			0.60 J	0.61 J	1.5	< 1.0	< 5.0	< 1.0	1.6	< 500	< 1.0	NT	< 1.0	< 1.0	< 1.0
Dichloroethane,1,1-			5.4	5.6	10.6	< 1.0	< 5.0	2.5	59.9	< 500	46.8	68.3	86.6	38.7	33.0
Dichloroethylene, cis-1,2-			3.3	< 1.0	8.7	< 1.0	9	< 1.0	7.7	< 500	250	194	279	148	145
Dichloroethylene,1,1-			247	241	8980	3.0	25.2	11.5	1260	2290	10	2.6	4.5	1.7	1.8
Tetrachloroethylene (PCE)			17300	18000	48500	135	1420	120	74900	49600	39.6	31.2	49.3	12.1	22.4
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 500	3.6	2.5	4.1	3.5	2.0
Trichloroethane,1,1,1- (TCA)			13300	14200	42500 J+	29.5	867	147 J+	135000	151000	5.6 J+	28	89.8	12.5	10.8
Trichloroethylene (TCE)			9090	9660	30600	18.9	602	36	120000	103000	51.4	40.4	< 1.0	27	34.9
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	1.2	< 500	40.4	38.2	68.0	26.4	29.9

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. SHA = Sanborn Head & Associates, Inc.
6. NT = not tested.
7. FD = field duplicate sample.

Qualifying Notes:

E The reported value is estimated; reported from undiluted sample run due to sample non-homogeneity.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2a
Risk Characterization Data - Groundwater
Property Exposure Area
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW203	MW-3			SH-MW1		SH-MW2			SH-MW3		
Well Screen Interval (ft bgs):			6 to 18	unknown	unknown	unknown	10 to 30	10 to 30	10 to 25	10 to 25	10 to 25	10 to 24	10 to 24	10 to 24
Sample Date:			7/19/2007	1/17/2007	4/17/2007	4/15/08	1/16/2007	4/12/2007	1/16/2007	4/16/2007	7/19/2007	1/17/2007	4/12/2007	4/15/08
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 100	< 1.0	< 100
Chloroethane			< 2.0	< 2.0	< 50	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 200	< 2.0	< 200
Chloroform			NT	3.4	< 25	< 1.0	1.7	3.4	< 1.0	< 2.0	NT	< 100	1.1	< 100
Dichloroethane,1,1-			22.2	< 1.0	< 25	< 1.0	8.5	12.7	5.7	< 2.0	12.4	< 100	24.5	< 100
Dichloroethylene, cis-1,2-			102	1.9	< 25	< 1.0	11.2	2.7	14.7	1.4 J	26.1	< 100	39.8	34.5 J
Dichloroethylene,1,1-			76.4	5.6	< 25	< 1.0	9	24.4	9.8	2.1	23.8	< 100	91.3	< 100
Tetrachloroethylene (PCE)			15500	51900	6550	400	31700 F+	48900	2880 F+	726	3320	29700	34000	15200
Trans-1,2-Dichloroethylene			1.2	< 1.0	< 25	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 100	< 1.0	< 100
Trichloroethane,1,1,1- (TCA)			1710	68.7	11.1 J	< 1.0	31.4	27.9 J+	360	44.1	539	806	621 E, J+	119
Trichloroethylene (TCE)			979	247	13.8 J	1.9	141	159	171	26.5	354	709	1030	306
Vinyl chloride			< 1.0	< 1.0	< 25	< 1.0	< 1.0	0.55 J	< 1.0	< 2.0	< 1.0	< 100	0.83 J	< 100

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. SHA = Sanborn Head & Associates, Inc.
6. NT = not tested.
7. FD = field duplicate sample.

Qualifying Notes:

E The reported value is estimated; reported from undiluted sample run due to sample non-homogeneity.
F+ The result has a high bias due to matrix spike recovery above upper control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2b
Risk Characterization Data - Groundwater
60 Tufts Street Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	MW201				MW202			
		Well Screen Interval (ft bgs):	11 to 21	11 to 21	11 to 21	11 to 21	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5	10.5 to 20.5
		Sample Date:	7/19/2007	10/12/2007	1/11/2008	4/15/08	7/19/2007	10/12/2007	1/11/2008	4/15/08
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**								
Volatile Organic Compounds (VOCs)										
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			NT	0.47 J	0.40 J	0.24 J	NT	< 1.0	< 1.0	< 1.0
Dichloroethane,1,1-			< 1.0	0.66 J	< 1.0	0.23 J	0.50 J	< 1.0	< 1.0	0.46 J
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			4.7	4.9	5.2	3.0	1.1	< 1.0	< 1.0	2.9
Tetrachloroethylene (PCE)			5.1	19.6	25.8	18.0	17.2	14.6	21.8	55.6
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			9.8	36.3	32.9	7.3	12.5	4.4	4.2	35.2
Trichloroethylene (TCE)			4.5	7.2	8.2	6.4	2.2	1.5	1.6	6.9
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

General Notes:
1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. NT = not tested.

Qualifying Note:
J The reported result is below the laboratory reporting limit and is estimated.

Table 11-2c
Risk Characterization Data - Groundwater
Tufts Street and MBTA Railroad Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	GEO-4		GEO-5		GEO-6				MW109		
		Well Screen Interval (ft bgs):	4 to 19	4 to 19	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	3 to 13	3 to 13	3 to 13
		Sample Date:	1/16/2007	4/16/2007	1/16/2007	4/16/2007	1/16/2007	1/16/2007(FD)	4/16/2007	4/16/2007	1/18/2007	4/16/2007	4/17/08
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**											
Volatile Organic Compounds (VOCs)													
Carbon tetrachloride	8260	µg/l	< 20	< 10	< 50	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 40	< 20	< 100	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 20	< 10	< 50	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethane,1,1-			< 20	< 10	< 50	< 1.0	1.7	1.6	0.92 J	1.1	1.2	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 20	5.5 J	< 50	< 1.0	7.7	6.9	5.3	6.3	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			< 20	< 10	< 50	< 1.0	4.4	3.2	2.8	3.8	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			16700	8240	254 F+	17.9	632	594 F+	618	497	178 F-	28.5	17.4
Trans-1,2-Dichloroethylene			< 20	< 10	< 50	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			113	70.9	< 50	< 1.0	33.7	25.3	21.2	26.8	0.77 J	0.97 J	0.31 J
Trichloroethylene (TCE)			129	74.8	< 50	< 1.0	75.3	56.5	55.5	70.5	4.5	< 1.0	0.52 J
Vinyl chloride			< 20	< 10	< 50	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0

General Notes:
1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. NT = not tested.
6. FD = field duplicate sample.

Qualifying Notes:
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2d
Risk Characterization Data - Groundwater
Alston Street Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW105						MW114		
Well Screen Interval (ft bgs):			19 to 29	19 to 29	19 to 29	19 to 29	19 to 29	19 to 29	7 to 17	7 to 17	7 to 17
Sample Date:			1/17/2007	4/16/2007	7/19/2007	10/10/2007	1/9/2008	4/18/08	2/20/2007	4/13/2007	7/18/2007
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**									
Volatile Organic Compounds (VOCs)											
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT
Dichloroethane,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			3.2	1.5	1.5	1.6	2.2	1.7	< 1.0	< 1.0	< 1.0
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. NT = not tested.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 11-2d

Risk Characterization Data - Groundwater

Alston Street Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW114 (continued)			MW115					
Well Screen Interval (ft bgs):			7 to 17	7 to 17	7 to 17	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25
Sample Date:			10/10/2007	1/11/2008	4/17/08	3/23/2007	4/13/2007	7/18/2007	10/10/2007	1/9/2008	4/17/08
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**									
Volatile Organic Compounds (VOCs)											
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Dichloroethane,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. NT = not tested.

Qualifying Note:

J The reported result is below the laboratory reporting limit and is estimated.

Table 11-2e
Risk Characterization Data - Groundwater
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	GEO-3		MW101			MW102					
		Well Screen Interval (ft bgs):	5 to 20	5 to 20	9 to 19	9 to 19	9 to 19	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16
		Sample Date:	1/16/2007	4/13/2007	1/17/2007	4/13/2007	4/13/2007 (FD)	1/16/2007	4/13/2007	7/18/2007	10/10/2007	1/10/2008	4/17/08
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**											
Volatile Organic Compounds (VOCs)													
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	< 1.0	< 1.0	1.8	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0
Dichloroethane,1,1-			2.6	< 1.0	< 1.0	< 1.0	1.6	< 1.0	< 1.0	0.42 J	2.1	4.1	0.51 J
Dichloroethylene, cis-1,2-			1.2	< 1.0	1.3	< 1.0	2.1 G	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
Dichloroethylene,1,1-			11.5	1.4	14.1	< 1.0	4.6 G	30	< 1.0	23.6	39.7	51.8	22.2 C+
Tetrachloroethylene (PCE)			529	93.2	192	94	90.7	692	20.3	524	685	606	438 C+
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			16.2	< 1.0	131	50.5 J+	43.0 J+	32.6	< 1.0	26.3	69.8	121	21.9 C+
Trichloroethylene (TCE)			70.2	10	38.4	47.2	45.7	57	2	46.1	61.0	65.3	35.6 C+
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0

General Notes:
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2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2e
Risk Characterization Data - Groundwater
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	**MW103**				**MW106**						**MW110**	
		Well Screen Interval (ft bgs):	**6 to 16**	**6 to 16**	**6 to 16**	**6 to 16**	**9 to 19**	**9 to 19**	**9 to 19**	**9 to 19**	**9 to 19**	**9 to 19**	**3 to 13**	**3 to 13**
		Sample Date:	**1/16/2007**	**1/16/2007**	**1/18/2007**	**4/13/2007**	**1/18/2007**	**4/13/2007**	**7/19/2007**	**10/10/2007**	**1/10/2008**	**4/17/08**	**1/18/2007**	**4/17/2007**
		Collected By:	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**
Analyte	**Method**	**Units**												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	6.1	< 2.0	< 10	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			0.65 J	< 1.0	0.62 J	< 5.0	1.1	1.2	NT	0.56 J	0.39 J	1.7	< 1.0	< 1.0
Dichloroethane,1,1-			11.5	57.1	10.1	7.9	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	244	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			4.3	2.9	4.3	8	4.4	6.3	3.4	3.9	4.1	1.5	< 1.0	< 1.0
Tetrachloroethylene (PCE)			1200 F+	29.3	1250 F-	1510	1.0 F-	1.2	2.3	1.7	2.3	0.44 J	0.89 J F-	0.93 J
Trans-1,2-Dichloroethylene			< 1.0	6.2	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			17.6	23.2	21	< 5.0	15.3	1.5 J+	6.4	11.3	14.9	2.3	< 1.0	< 1.0
Trichloroethylene (TCE)			37	49.1	38	58.7	3.7	4.8	3.6	4.4	4.9	1.2	< 1.0	< 1.0
Vinyl chloride			< 1.0	47.4	< 1.0	< 5.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

General Notes:
1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:

F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
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Table 11-2e
Risk Characterization Data - Groundwater
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW111						MW112A					
Well Screen Interval (ft bgs):			4 to 14	4 to 14	4 to 14	4 to 14	4 to 14	4 to 14	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19
Sample Date:			1/18/2007	4/16/2007	7/18/2007	10/10/2007	1/10/2008	4/17/08	3/23/2007	4/16/2007	7/18/2007	10/10/2007	1/10/2008	4/17/08
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	µg/l	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 20	< 50	< 2.0	< 100	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 10	< 25	NT	< 50	1.2	< 2.0	0.35 J	< 1.0	NT	< 1.0	0.32 J	< 1.0
Dichloroethane,1,1-			30.9	15.7 J	16.8	19.1 J	5.6	4.3 C+	27.6	24	6.4	35.6	114	40.9 C+
Dichloroethylene, cis-1,2-			22.6	17.2 J	56.3	63.9	10.6	4.4 C+	< 1.0	0.54 J	0.98 J	4.2	18.7	55.3 C+
Dichloroethylene,1,1-			17.6	< 25	10.5	< 50	4.1	3.7 C+	19.7	10.8	6.7	19.7	82.4	36.6 C+
Tetrachloroethylene (PCE)			13700 F-	7370	6340	8350	3100	1160 C+	261	198	144	159	359	202 C+
Trans-1,2-Dichloroethylene			< 10	< 25	1.5	< 50	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			142	56.5	89.1	84.1	41.3	17.6 C+	1.3	0.96 J	0.68 J	1.4	5.8	1.9 C+
Trichloroethylene (TCE)			150	84.4	120	125	42.1	19.9 C+	34	36.1	26.7	61.3	142	72.8 C+
Vinyl chloride			< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	0.84 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

General Notes:

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3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:

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Table 11-2e
Risk Characterization Data - Groundwater
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW116									MW118D				
Well Screen Interval (ft bgs):			5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	5 to 15	70 to 80	70 to 80	70 to 80	70 to 80	70 to 80
Sample Date:			3/23/2007	4/16/2007	7/18/2007	7/18/2007	10/12/2007	10/12/2007	1/11/2008	4/15/08	4/15/08 (FD)	7/20/2007	8/30/2007	10/11/2007	1/16/2008	4/16/08
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**														
Volatile Organic Compounds (VOCs)																
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	2.4	2.3	2.4 J	2.4 J	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	NT	NT	< 2.0	< 2.0	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0
Dichloroethane,1,1-			135	4.4	97.3	96.9	80.1	79.3	18.9	66.8	64.5	20.3	21.4	31.2	31.7	33.3
Dichloroethylene, cis-1,2-			103	21.7	415	431	346	341	49.5	105	102	0.55 J	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			107	2.7	33.8	34	24.8	22.4	14.7	46.3	45.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			1180	32.2	167	168	116	110	267	603	607	7	8.4	8.2	6.1	5.7
Trans-1,2-Dichloroethylene			1.8	< 1.0	4.3	4.4	2.5	2.4	0.88 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			21.6	0.67 J	10.6	10.7	9.4	9.2	3.3	10.7	10.7	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			358	19.4	72.7	73.2	136	129	66.3	175	174	1.2	3.9	1.8	0.94 J	1.0
Vinyl chloride			14.1	3.2	185	182	84.9	76.4	3.1	2.6	2.7	< 1.0	2.4	< 1.0	< 1.0	< 1.0

General Notes:

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4. µg/l = micrograms per liter.
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6. NT = not tested.

Qualifying Notes:

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Table 11-2e
Risk Characterization Data - Groundwater
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW118S					MW118T				
Well Screen Interval (ft bgs):			3 to 14	3 to 14	3 to 14	3 to 14	3 to 14	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5	39.5 to 49.5
Sample Date:			7/20/2007	8/30/2007	10/11/2007	1/11/2008	4/16/08	7/20/2007	8/30/2007	10/11/2007	1/15/2008	4/16/08
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	Method	Units										
Volatile Organic Compounds (VOCs)												
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			NT	NT	< 1.0	< 1.0	< 1.0	NT	NT	< 1.0	< 1.0	< 1.0
Dichloroethane,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	35.4	34.4	44.2	42.3	42.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.45 J	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene (PCE)			0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	3	3.8	2.2	2.9	2.7
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene (TCE)			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.31 J	< 1.0
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.3	< 1.0	< 1.0	< 1.0

General Notes:
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2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:
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G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
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Table 11-2e
Risk Characterization Data - Groundwater
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

Sample Location:			MW119S				MW119T				MW120D			
Well Screen Interval (ft bgs):			5 to 20	5 to 20	5 to 20	5 to 20	42 to 47	42 to 47	42 to 47	42 to 47	28 to 38	28 to 38	28 to 38	28 to 38
Sample Date:			8/22/2007	10/12/2007	1/15/2008	4/16/08	8/22/2007	10/12/2007	1/16/2008	4/16/08	8/22/2007	10/12/2007	1/17/2008	4/16/08
Collected By:			GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	Method	Units												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	µg/l	< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0 J+	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethane,1,1-			< 1.0 J+	< 1.0	< 1.0	< 1.0	10.4 J+	11	10.9	10.4	23.0 J+	26.0	23.2	30.8
Dichloroethylene, cis-1,2-			< 1.0 J+	< 1.0	< 1.0	< 1.0	0.54 J+	1.2	1.1	1.2	0.70 J+	< 1.0	1.7	1.9
Dichloroethylene,1,1-			< 1.0 J+	< 1.0	< 1.0	< 1.0	2	6.4	6.0	6.2	15.6 J+	18.9	14.3	17.8
Tetrachloroethylene (PCE)			< 1.0 J+	< 1.0	< 1.0	< 1.0	94.3 J+	105	85.0	86.3	93.5 J+	120	113	131
Trans-1,2-Dichloroethylene			< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1- (TCA)			< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	0.69 J	0.52 J	< 1.0	10.3 J+	4.3	3.2	< 1.0
Trichloroethylene (TCE)			< 1.0 J+	< 1.0	< 1.0	< 1.0	25.9 J+	29.6	26.7	26.8	32.6	40.1	34.7	43.4
Vinyl chloride			< 1.0 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.38 J	0.35 J	< 1.0

General Notes:

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3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:

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F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2e
Risk Characterization Data - Groundwater
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	MW120S				MW121D			MW121S			MW122	
		Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	5 to 20	5 to 20	5 to 20	4 to 16	4 to 16
		Sample Date:	8/22/2007	10/12/2007	1/15/2008	4/16/08	10/22/2007	1/15/2008	4/17/08	10/22/2007	1/15/2008	4/17/08	1/30/2008	4/17/08
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
Chloroform			1.9 J+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Dichloroethane,1,1-			1.1 J+	4.3	< 1.0	< 1.0	46.3	55.3	46.6	< 1.0	< 1.0	< 1.0	19.3	30.4 C+
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	3.9	11.8	6.4	< 1.0	< 1.0	< 1.0	60.6	70.7 C+
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	13.2	< 1.0	16.7	< 1.0	< 1.0	< 1.0	4.0	9.0 C+
Tetrachloroethylene (PCE)			< 1.0	< 1.0	0.97 J	< 1.0	182	258	177	< 1.0	< 1.0	< 1.0	477	691 C+
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.70 J	< 1.0	< 1.0	< 1.0	< 1.0	0.87 J	< 2.0
Trichloroethane,1,1,1- (TCA)			< 1.0	< 1.0	< 1.0	< 1.0	1.2	1.3	1.2	< 1.0	< 1.0	< 1.0	1.4	3.4 C+
Trichloroethylene (TCE)			< 1.0	< 1.0	0.39 J	< 1.0	59.6	136	68.8	< 1.0	< 1.0	< 1.0	177	106 C+
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	< 2.0

General Notes:
1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:
F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2f
Risk Characterization Data - Groundwater
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	GEO-3							GEO-4				
		Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	4 to 19	4 to 19	4 to 19	4 to 19	4 to 19
		Sample Date:	8/16/2004	5/24/2006	5/24/2006	10/4/2006	(FD)	1/16/2007	4/13/2007	8/16/2004	5/24/2006	10/4/2006	1/16/2007	4/16/2007
		Collected By:	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	µg/l	< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Chloroethane			< 100	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 200	< 2.0	< 2.0	< 40	< 20
Chloroform			< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	2.5	< 20	< 10
Dichloroethane,1,1-			< 50	< 1.0	< 1.0	11.6	11.6	2.6	< 1.0	< 100	2.7	7.1	< 20	< 10
Dichloroethylene,1,1-			108	< 1.0	< 1.0	59.3	59.1	11.5	1.4	< 100	6.1	17.8	< 20	< 10
Dichloroethylene, cis-1,2-			< 50	< 1.0	< 1.0	2.8	2.6	1.2	< 1.0	< 100	6.3	16.7	< 20	5.5 J
Trans-1,2-Dichloroethylene			< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10
Tetrachloroethylene			4020	162	157	2720	2340	529	93.2	12900	6690	24100	16700	8240
Trichloroethane,1,1,1-			204	4	4.4	78.2 J+	77.2 J+	16.2	< 1.0	1170	113	321 J+	113	70.9
Trichloroethylene			507	14.4	14.1	209	207	70.2	10	720	86.8	235	129	74.8
Vinyl chloride			< 50	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 100	< 1.0	< 1.0	< 20	< 10

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:

F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2f

Risk Characterization Data - Groundwater

Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	GEO-5					GEO-6						
		Well Screen Interval (ft bgs):	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20	5 to 20
		Sample Date:	8/16/2004	5/24/2006	10/4/2006	1/16/2007	4/16/2007	8/16/2004	5/24/2006	10/4/2006	1/16/2007	1/16/2007(FD)	4/16/2007	4/16/2007
		Collected By:	GeoInsight	GEI	GEI	GEI	GEI	GeoInsight	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	µg/l	< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Chloroethane			< 200	< 2.0	< 2.0	< 100	< 2.0	< 20	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0
Chloroform			< 100	< 1.0	0.62 J	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Dichloroethane,1,1-			< 100	3	9.7	< 50	< 1.0	< 10	2	4.4	1.7	1.6	0.92 J	1.1
Dichloroethylene,1,1-			< 100	8.9	32.7	< 50	< 1.0	< 10	4.6	11	4.4	3.2	2.8	3.8
Dichloroethylene, cis-1,2-			< 100	12.5	35.2	< 50	< 1.0	< 10	9.1	15.4	7.7	6.9	5.3	6.3
Trans-1,2-Dichloroethylene			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0
Tetrachloroethylene			14400	2440	12900	254 F+	17.9	782	675	1980	632	594 F+	618	497
Trichloroethane,1,1,1-			646	246	652	< 50	< 1.0	27.8	42.5	77.2 J+	33.7	25.3	21.2	26.8
Trichloroethylene			404	146	446	< 50	< 1.0	122	78.8	131	75.3	56.5	55.5	70.5
Vinyl chloride			< 100	< 1.0	< 1.0	< 50	< 1.0	< 10	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:

F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2f
Risk Characterization Data - Groundwater
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	MW102							MW103					
		Well Screen Interval (ft bgs):	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16	6 to 16
		Sample Date:	5/24/2006	10/5/2006	1/16/2007	4/13/2007	7/18/2007	10/10/2007	1/10/2008	5/24/2006	8/7/2006	10/5/2006	1/16/2007	1/18/2007	4/13/2007
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**													
Volatile Organic Compounds (VOCs)															
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 10
Chloroform			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	0.65 J	0.62 J	< 5.0
Dichloroethane,1,1-			< 1.0	0.88 J	< 1.0	< 1.0	0.42 J	2.1	4.1	27.2	3.7	13	11.5	10.1	7.9
Dichloroethylene,1,1-			6.3	50.2	30	< 1.0	23.6	39.7	51.8	13.4	2	6.5	4.3	4.3	8
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	3	2.5	< 1.0	< 1.0	< 5.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0
Tetrachloroethylene			200	898	692	20.3	524	685	606	2600	592	1510	1200 F+	1250 F-	1510
Trichloroethane,1,1,1-			< 1.0	65.7 J+	32.6	< 1.0	26.3	69.8	121	34	4.4	14.4 J+	17.6	21	< 5.0
Trichloroethylene			15.6	89.1	57	2	46.1	61.0	65.3	109	24	60.4	37	38	58.7
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 5.0

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:

F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2f
Risk Characterization Data - Groundwater
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	**MW105**								**MW110**	
		Well Screen Interval (ft bgs):	**19 to 29**	**19 to 29**	**19 to 29**	**19 to 29**	**19 to 29**	**19 to 29**	**19 to 29**	**19 to 29**	**3 to 13**	**3 to 13**
		Sample Date:	**5/24/2006**	**10/5/2006**	**1/17/2007**	**4/16/2007**	**7/19/2007**	**10/10/2007**	**1/9/2008**	**4/18/08**	**1/18/2007**	**4/17/2007**
		Collected By:	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**
Analyte	**Method**	**Units**										
Volatile Organic Compounds (VOCs)												
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethane,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene			7.8	0.69 J	0.67 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.89 J F-	0.93 J
Trichloroethane,1,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene			< 1.0	3.4	3.2	1.5	1.5	1.6	2.2	1.7	< 1.0	< 1.0
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:

F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2f
Risk Characterization Data - Groundwater

Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	**MW111**						**MW112A**					
		Well Screen Interval (ft bgs):	**4 to 14**	**4 to 14**	**4 to 14**	**4 to 14**	**4 to 14**	**4 to 14**	**4 to 19**	**4 to 19**	**4 to 19**	**4 to 19**	**4 to 19**	**4 to 19**
		Sample Date:	**1/18/2007**	**4/16/2007**	**7/18/2007**	**10/10/2007**	**1/10/2008**	**4/17/08**	**3/23/2007**	**4/16/2007**	**7/18/2007**	**10/10/2007**	**1/10/2008**	**4/17/08**
		Collected By:	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**	**GEI**
Analyte	**Method**	**Units**												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	µg/l	< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 20	< 50	< 2.0	< 100	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 10	< 25	NT	< 50	1.2	< 2.0	0.35 J	< 1.0	NT	< 1.0	0.32 J	< 1.0
Dichloroethane,1,1-			30.9	15.7 J	16.8	19.1 J	5.6	4.3 C+	27.6	24	6.4	35.6	114	40.9 C+
Dichloroethylene,1,1-			17.6	< 25	10.5	< 50	4.1	4.4 C+	19.7	10.8	6.7	19.7	82.4	55.3 C+
Dichloroethylene, cis-1,2-			22.6	17.2 J	56.3	63.9	10.6	3.7 C+	< 1.0	0.54 J	0.98 J	4.2	18.7	36.6 C+
Trans-1,2-Dichloroethylene			< 10	< 25	1.5	< 50	< 1.0	1160 C+	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	202 C+
Tetrachloroethylene			13700 F-	7370	6340	8350	3100	< 2.0	261	198	144	159	359	< 1.0
Trichloroethane,1,1,1-			142	56.5	89.1	84.1	41.3	17.6 C+	1.3	0.96 J	0.68 J	1.4	5.8	1.9 C+
Trichloroethylene			150	84.4	120	125	42.1	19.9 C+	34	36.1	26.7	61.3	142	72.8 C+
Vinyl chloride			< 10	< 25	< 1.0	< 50	< 1.0	< 2.0	0.84 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:

F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2f
Risk Characterization Data - Groundwater
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	MW114						MW115					
		Well Screen Interval (ft bgs):	7 to 17	7 to 17	7 to 17	7 to 17	7 to 17	7 to 17	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25
		Sample Date:	2/20/2007	4/13/2007	7/18/2007	10/10/2007	1/11/2008	4/17/08	3/23/2007	4/13/2007	7/18/2007	10/10/2007	1/9/2008	4/17/08
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**												
Volatile Organic Compounds (VOCs)														
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
Chloroform			< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NT	< 1.0	< 1.0	< 1.0
Dichloroethane,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dichloroethylene, cis-1,2-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-Dichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethane,1,1,1-			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethylene			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vinyl chloride			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:

F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-2f
Risk Characterization Data - Groundwater
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

		Sample Location:	MW121D			MW121S			MW122	
		Well Screen Interval (ft bgs):	32.1 to 47.1	32.1 to 47.1	32.1 to 47.1	5 to 20	5 to 20	5 to 20	4 to 16	4 to 16
		Sample Date:	10/22/2007	1/15/2008	4/17/08	10/22/2007	1/15/2008	4/17/08	1/30/2008	4/17/08
		Collected By:	GEI	GEI	GEI	GEI	GEI	GEI	GEI	GEI
Analyte	**Method**	**Units**								
Volatile Organic Compounds (VOCs)										
Carbon tetrachloride	8260	µg/l	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Chloroethane			< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 4.0
Chloroform			< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 2.0
Dichloroethane,1,1-			46.3	55.3	46.6	< 1.0	< 1.0	< 1.0	19.3	30.4 C+
Dichloroethylene,1,1-			13.2	< 1.0	6.4	< 1.0	< 1.0	< 1.0	4.0	70.7 C+
Dichloroethylene, cis-1,2-			3.9	11.8	16.7	< 1.0	< 1.0	< 1.0	60.6	9.0 C+
Trans-1,2-Dichloroethylene			< 1.0	0.70 J	177	< 1.0	< 1.0	< 1.0	0.87 J	691 C+
Tetrachloroethylene			182	258	< 1.0	< 1.0	< 1.0	< 1.0	477	< 2.0
Trichloroethane,1,1,1-			1.2	1.3	1.2	< 1.0	< 1.0	< 1.0	1.4	3.4 C+
Trichloroethylene			59.6	136	68.8	< 1.0	< 1.0	< 1.0	177	106 C+
Vinyl chloride			0.39 J	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.32 J	< 2.0

General Notes:

1. Only analytes used in the risk characterization are reported here.
2. "< " = The analyte was not detected at a concentration above the specified reporting limit.
3. ft bgs = feet below ground surface.
4. µg/l = micrograms per liter.
5. FD = field duplicate sample.
6. NT = not tested.

Qualifying Notes:

F+ The result has a high bias due to matrix spike recovery above upper control limits.
F- The result has a low bias due to matrix spike recovery below lower control limits.
J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-3a
Risk Characterization Data - Soil Vapor
Property Exposure Area
50 Tufts Street
Somerville, Massachusetts

No Soil Vapor Samples Were Assessed Within the "Property" Exposure Area

Table 11-3b
Risk Characterization Data - Soil Vapor
60 Tufts Street Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	MW201						MW202			
	Sample ID:	MW201-SG		MW201-SG		MW201-SG		SVT-MW202S		MW202-SG	
	Sample Date:	10/19/2007		1/8/2008		4/14/2008		7/17/2007		10/19/2007	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 1.3	< 0.20	< 25	< 4.0	< 25	< 4.0	< 25	< 4.0	1.2 J	0.19 J
Chloroethane		1.2	0.45	< 11	< 4.0	< 11	< 4.0	< 11	< 4.0	2.3	0.88
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		3.1	0.76	< 16	< 4.0	< 16	< 4.0	< 16	< 4.0	40	9.9
Dichloroethylene, cis-1,2-		7.9	2.0	< 16	< 4.0	< 16	< 4.0	< 16	< 4.0	4.4	1.1
Dichloroethylene,1,1-		109	27.5	59.9	15.1	39	9.9	11 J	2.8 J	326	82.3
Tetrachloroethylene (PCE)		8000	1180	5160	761	4830	713	2550	376	7460	1100
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 16	< 4.0	< 16	< 4.0	< 16	< 4.0	0.87	0.22
Trichloroethane,1,1,1- (TCA)		1520	278	617	113	232	42.5	537	98.5	4340	796
Trichloroethylene (TCE)		1530	285	1300	241	656	122	253	47.0	393	73.2
Vinyl chloride		0.79	0.31	< 10	< 4.0	< 10	< 4.0	< 10	< 4.0	1.9	0.73

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3b
Risk Characterization Data - Soil Vapor
60 Tufts Street Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	MW202									
	Sample ID:	MW202-SG		60Tuft-SVT-MW202S		60Tuft-SVT-MW202S		60Tuft-SVT-MW202S		MW202-SG	
	Sample Date:	1/8/2008		1/16/2008		1/17/2008		1/21/2008		4/14/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 25	< 4.0	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 13	< 2.0
Chloroethane		< 11	< 4.0	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 5.3	< 2.0
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		23	5.8	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	3.6 J	0.89 J
Dichloroethylene, cis-1,2-		< 16	< 4.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 7.9	< 2.0
Dichloroethylene,1,1-		468	118	0.79	0.2	0.48 J	0.12 J	0.56 J	0.14 J	103	26.1
Tetrachloroethylene (PCE)		5390	795	252	37.1	366	54	403	59.4	2160	318
Trans-1,2-Dichloroethylene		< 16	< 4.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 7.9	< 2.0
Trichloroethane,1,1,1- (TCA)		2280	418	28	5.1	27	4.9	35	6.4	878	161
Trichloroethylene (TCE)		575	107	2.0	11	2.0	11	2.7	15	123	22.8
Vinyl chloride		< 10	< 4.0	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 5.1	< 2.0

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3c
Risk Characterization Data - Soil Vapor
Tufts Street and MBTA Railroad Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	MW109									
	Sample ID:	MW109		MW109		MW109-SG		MW109-SG		MW109-SG	
	Sample Date:	1/17/2007		4/10/2007		10/9/2007		1/7/2008		4/14/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 130	< 20	< 63	< 10	< 13	< 2.0	< 25	< 4.0	< 25	< 4.0
Chloroethane		< 53	< 20	< 26	< 10	< 5.3	< 2.0	< 11	< 4.0	< 11	< 4.0
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 81	< 20	< 40	< 10	< 8.1	< 2.0	< 16	< 4.0	< 16	< 4.0
Dichloroethylene, cis-1,2-		< 79	< 20	< 40	< 10	< 7.9	< 2.0	< 16	< 4.0	< 16	< 4.0
Dichloroethylene,1,1-		< 79	< 20	< 40	< 10	< 7.9	< 2.0	< 16	< 4.0	< 16	< 4.0
Tetrachloroethylene (PCE)		9020	1330	3950	582	18900	2780	3510	518	4850 G	715 G
Trans-1,2-Dichloroethylene		< 79	< 20	< 40	< 10	< 7.9	< 2.0	< 16	< 4.0	< 16	< 4.0
Trichloroethane,1,1,1- (TCA)		573	105	322	59.1	354	64.9	87.8	16.1	113	20.7
Trichloroethylene (TCE)		< 110	< 20	31 J	5.7 J	32	5.9	< 21	< 4.0	19 J	3.6 J
Vinyl chloride		< 51	< 20	< 26	< 10	< 5.1	< 2.0	< 10	< 4.0	< 10	< 4.0

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3d
Risk Characterization Data - Soil Vapor
Alston Street Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	**MW114**											
	Sample ID:	**MW114**		**MW114**		**SG-MW114**		**MW114-SG**		**MW114-SG**		**MW114-S9**	
	Sample Date:	**2/19/2007**		**4/10/2007**		**7/17/2007**		**10/9/2007**		**1/7/2008**		**4/14/2008**	
Analyte	**Method** / **Units:**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 31	< 5.0	< 1.3	< 0.20	0.69 J	0.11 J	0.88 J	0.14 J	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 5.3	< 2.0	0.77	0.29	< 0.53	< 0.20	3.7	1.4	0.98	0.37	< 0.53	< 0.20
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 8.1	< 2.0	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 14	< 2.0	12	1.7	17	2.5	40	5.9	13	1.9	17	2.5
Trans-1,2-Dichloroethylene		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 11	< 2.0	< 1.1	< 0.20	0.76 J	0.14 J	2.3	0.43	0.52 J	0.095 J	< 1.1	< 0.20
Trichloroethylene (TCE)		4	0.75	0.86 J	0.16 J	1.5	0.27	7.5	1.4	1.8	0.33	2.0	0.37
Vinyl chloride		< 5.1	< 2.0	0.36 J	0.14 J	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3d
Risk Characterization Data - Soil Vapor
Alston Street Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	MW115													
	Sample ID:	MW115		MW115		MW115		SG-MW115R		MW115-SG		MW115R-SG		MW115R-S9	
	Sample Date:	2/19/2007		3/20/2007		4/10/2007		7/17/2007		10/16/2007		1/7/2008		4/14/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		< 13	< 2.0	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	2.8	0.44	0.69 J	0.11 J
Chloroethane		< 5.3	< 2.0	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 8.1	< 2.0	0.65 J	0.16 J	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 7.9	< 2.0	1.3	0.33	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		42	6.2	12	1.8	< 1.4	< 0.20	71.2	10.5	12	1.8	14	2.0	2.1	0.31
Trans-1,2-Dichloroethylene		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 11	< 2.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.60 J	0.11 J	< 1.1	< 0.20
Trichloroethylene (TCE)		15	2.7	< 1.1	< 0.20	< 1.1	< 0.20	0.75 J	0.14 J	1.0 J	0.19 J	2.0	0.38	< 1.1	< 0.20
Vinyl chloride		< 5.1	< 2.0	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Note:

J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3e
Risk Characterization Data - Soil Vapor
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	MW106													
	Sample ID:	MW106		MW900		MW106		SG-MW106		MW106-SG		MW106-SG		MW106-SG	
	Sample Date:	1/18/2007		1/18/2007		4/10/2007		7/17/2007		10/9/2007		1/7/2008		4/14/2008	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		< 6.3	< 1.0	< 2.5	< 0.40	< 1.3	< 0.20	< 13	< 2.0	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 2.6	< 1.0	< 1.1	< 0.40	< 0.53	< 0.20	< 5.3	< 2.0	4.2	1.6	< 0.53	< 0.20	< 0.53	< 0.20
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		12	3	3.7	0.92	2.6	0.64	8.1 G	2.0 G	11	2.8	2.9	0.71	1.2	0.29
Dichloroethylene, cis-1,2-		< 4.0	< 1.0	< 1.6	< 0.40	< 0.79	< 0.20	< 7.9	< 2.0	1.7	0.44	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		204	51.5	58.7	14.8	20	5.1	153 G	38.6 G	280	70.7	39	9.8	15	3.7
Tetrachloroethylene (PCE)		47	6.9	16	2.4	14	2.1	203 G	30.0 G	162	23.9	28	4.1	22	3.3
Trans-1,2-Dichloroethylene		< 4.0	< 1.0	< 1.6	< 0.40	< 0.79	< 0.20	< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		520	95.3	170	31.2	70.4	12.9	406 G	74.5 G	802	147	169	31.0	71.5	13.1
Trichloroethylene (TCE)		69.9	13	22	4.1	18	3.3	127 G	23.6 G	149	27.8	33	6.1	21	3.9
Vinyl chloride		< 2.6	< 1.0	< 1.0	< 0.40	< 0.51	< 0.20	< 5.1	< 2.0	1.7	0.68	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3e

Risk Characterization Data - Soil Vapor

Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	MW110		MW111											
	Sample ID:	MW110		MW111		MW111		SG-MW111		MW111-SG		MW111-SG		MW111-S9	
	Sample Date:	1/17/2007		1/17/2007		4/11/2007		7/17/2007		10/9/2007		1/7/2008		4/14/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		< 1.3	< 0.20	< 1300	< 200	< 130	< 20	< 1300	< 200	< 7500	< 1200	< 130	< 20	< 25	< 4.0
Chloroethane		< 0.53	< 0.20	< 530	< 200	< 53	< 20	< 530	< 200	< 3200	< 1200	< 53	< 20	< 11	< 4.0
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 0.81	< 0.20	943	233	67.2 J	16.6 J	< 810	< 200	< 4900	< 1200	< 81	< 20	28	6.8
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 790	< 200	46.4 J	11.7 J	< 790	< 200	< 4800	< 1200	35 J	8.8 J	16	4.1
Dichloroethylene,1,1-		< 0.79	< 0.20	619 J	156 J	< 79	< 20	< 790	< 200	< 4800	< 1200	< 79	< 20	< 16	< 4.0
Tetrachloroethylene (PCE)		< 1.4	< 0.20	269000	39700	52600	7760	178000 G	26200 G	1360000	200000	83400	12300	49600	7310
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 790	< 200	< 79	< 20	< 790	< 200	< 4800	< 1200	< 79	< 20	< 16	< 4.0
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	4650	853	715	131	2770	507	12800	2350	519	95.1	497	91.1
Trichloroethylene (TCE)		< 1.1	< 0.20	2600	484	466	86.7	1520	282	5590 J	1040 J	286	53.2	250	46.6
Vinyl chloride		< 0.51	< 0.20	< 510	< 200	< 51	< 20	< 510	< 200	< 3100	< 1200	< 51	< 20	< 10	< 4.0

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3e
Risk Characterization Data - Soil Vapor
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	**MW112**													
	Sample ID:	**MW112**		**MW112A**		**MW112A**		**SG-MW112A**		**MW112A-SG**		**MW112A-SG**		**MW112A-SG**	
	Sample Date:	**1/17/2007**		**3/20/2007**		**4/11/2007**		**7/17/2007**		**10/9/2007**		**1/7/2008**		**4/14/2008**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.69 J	0.11 J	< 63	< 10	< 130	< 20	< 13	< 2.0	< 25	< 4.0	< 25	< 4.0	< 25	< 4.0
Chloroethane		< 0.53	< 0.20	< 26	< 10	< 53	< 20	< 5.3	< 2.0	< 11	< 4.0	< 11	< 4.0	< 11	< 4.0
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 0.81	< 0.20	429	106	155	38.2	359 G	88.6 G	1150	284	2280	564	449	111
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 40	< 10	< 79	< 20	< 7.9	< 2.0	40.8	10.3	360	90.9	38	9.6
Dichloroethylene,1,1-		< 0.79	< 0.20	821	207	318	80.3	777 G	196 G	2080	524	3400	857	476	120
Tetrachloroethylene (PCE)		2.8	0.41	6230	919	6240	920	8140	1200	11300	1660	17400	2570	6010 G	886 G
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 40	< 10	< 79	< 20	< 7.9	< 2.0	< 16	< 4.0	< 16	< 4.0	< 16	< 4.0
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	85.1	15.6	66.0 J	12.1 J	139 G	25.5 G	262	48.0	467	85.6	44	8.1
Trichloroethylene (TCE)		< 1.1	< 0.20	951	177	505	93.9	2030 G	377 G	3980	740	2930	546	1210	225
Vinyl chloride		< 0.51	< 0.20	< 26	< 10	< 51	< 20	< 5.1	< 2.0	< 10	< 4.0	24	9.5	< 10	< 4.0

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3e
Risk Characterization Data - Soil Vapor
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	**MW116**												**MW118S**					
	Sample ID:	**MW116**		**MW116**		**SG-MW116**		**MW116-SG**		**MW116-SG**		**MW116-SG2**		**SG-MW118S**		**SG-MW118S**		**MW118S-SG**	
	Sample Date:	**3/20/2007**		**4/11/2007**		**7/17/2007**		**10/9/2007**		**1/30/2008**		**4/14/2008**		**7/17/2007**		**8/30/2007**		**10/9/2007**	
Analyte	**Method** / **Units:**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**
Volatile Organic Compounds (VOCs)	TO-15																		
Carbon tetrachloride		< 63	< 10	< 130	< 20	< 13	< 2.0	< 13	< 2.0	< 25	< 4.0	< 25	< 4.0	4.8	0.77	2.2	0.35	2.1	0.34
Chloroethane		< 26	< 10	< 53	< 20	28	10.6	91.8	34.8	< 11	< 4.0	< 11	< 4.0	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		378	93.5	923	228	1490 G	367 G	2550	629	482 G	119 G	365	90.3	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		254	64	2620	661	1740 G	438 G	4480	1130	702 G	177 G	265	66.9	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		876	221	1570	395	634 G	160 G	436	110	813 G	205 G	619	156	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		11100	1630	21500 G	3170 G	25500 G	3760 G	9630	1420	6600 G	974 G	15700	2320	231	34.1	155	22.9	176	26.0
Trans-1,2-Dichloroethylene		< 40	< 10	< 79	< 20	151	38.1	84.8	21.4	< 16	< 4.0	< 16	< 4.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		192	35.2	492	90.2	1020 G	187 G	408	74.8	206	37.7	125	22.9	8.2	1.5	6	1.1	7.6	1.4
Trichloroethylene (TCE)		2140	398	6400	1190	2620 G	488 G	2250	419	1830 G	341 G	1820	338	2.1	0.39	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		89	34.8	514	201	64.7	25.3	762	298	< 10	< 4.0	< 10	< 4.0	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3e
Risk Characterization Data - Soil Vapor
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	MW118S				MW120S				MW121S				MW122			
	Sample ID:	MW118S-SG		MW118S-SG		SG-120S		MW120S-SG		MW121S-SG		MW121S-SG		MW122-SG		MW122-SG	
	Sample Date:	1/8/2008		4/14/2008		8/28/2007		10/16/2007		10/22/2007		1/8/2008		1/30/2008		4/14/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.20	0.62 J	0.098 J	< 1.3	< 0.20	< 1.3	< 0.20	0.82 J	0.13 J	< 25	< 4.0	< 6.3	< 1.0
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	0.58	0.22	1.0	0.38	< 0.53	< 0.20	< 0.53	< 0.20	< 11	< 4.0	< 2.6	< 1.0
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 0.81	< 0.20	2.8	0.69	51.8	12.8	48.2	11.9	2.1	0.52	< 0.81	< 0.20	11 J	2.8 J	5.3	1.3
Dichloroethylene, cis-1,2-		3	0.75	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	9.1 J	2.3 J	4.8	1.2
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	1.1	0.29	0.75 J	0.19 J	0.67 J	0.17 J	< 0.79	< 0.20	12 J	3.0 J	2.8 J	0.71 J
Tetrachloroethylene (PCE)		182	26.8	6.0	0.88	18	2.7	< 1.4	< 0.20	2.0	0.30	1.8	0.26	5320	784	1340	197
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 16	< 4.0	< 4.0	< 1.0
Trichloroethane,1,1,1- (TCA)		5.4	0.99	3.1	0.57	0.55 J	0.10 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 22	< 4.0	8.2	1.5
Trichloroethylene (TCE)		13	2.4	< 1.1	< 0.20	4.8	0.90	0.86 J	0.16 J	< 1.1	< 0.20	< 1.1	< 0.20	69.3	12.9	35	6.6
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	0.51	0.20	0.74	0.29	1.8	0.72	< 0.51	< 0.20	< 10	< 4.0	< 2.6	< 1.0

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3f
Risk Characterization Data - Soil Vapor
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	**MW106**													
	Sample ID:	**MW106**		**MW900**		**MW106**		**SG-MW106**		**MW106-SG**		**MW106-SG**		**MW106-SG**	
	Sample Date:	**1/18/2007**		**1/18/2007**		**4/10/2007**		**7/17/2007**		**10/9/2007**		**1/7/2008**		**4/14/2008**	
	Units:	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		< 2.6	< 1.0	< 1.1	< 0.40	< 0.53	< 0.20	< 5.3	< 2.0	4.2	1.6	< 0.53	< 0.20	< 1.3	< 0.20
Chloroethane		< 6.3	< 1.0	< 2.5	< 0.40	< 1.3	< 0.20	< 13	< 2.0	< 1.3	< 0.20	< 1.3	< 0.20	< 0.53	< 0.20
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		12	3	3.7	0.92	2.6	0.64	8.1 G	2.0 G	11	2.8	2.9	0.71	1.2	0.29
Dichloroethylene, cis-1,2-		204	51.5	58.7	14.8	20	5.1	153 G	38.6 G	280	70.7	39	9.8	< 0.79	< 0.20
Dichloroethylene,1,1-		< 4.0	< 1.0	< 1.6	< 0.40	< 0.79	< 0.20	< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	15	3.7
Tetrachloroethylene (PCE)		< 4.0	< 1.0	< 1.6	< 0.40	< 0.79	< 0.20	< 7.9	< 2.0	1.7	0.44	< 0.79	< 0.20	22	3.3
Trans-1,2-Dichloroethylene		520	95.3	170	31.2	70.4	12.9	406 G	74.5 G	802	147	169	31.0	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		47	6.9	16	2.4	14	2.1	203 G	30.0 G	162	23.9	28	4.1	71.5	13.1
Trichloroethylene (TCE)		69.9	13	22	4.1	18	3.3	127 G	23.6 G	149	27.8	33	6.1	21	3.9
Vinyl chloride		< 2.6	< 1.0	< 1.0	< 0.40	< 0.51	< 0.20	< 5.1	< 2.0	1.7	0.68	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3f
Risk Characterization Data - Soil Vapor
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	**MW110**		**MW111**											
	Sample ID:	**MW110**		**MW111**		**MW111**		**SG-MW111**		**MW111-SG**		**MW111-SG**		**MW111-S9**	
	Sample Date:	**1/17/2007**		**1/17/2007**		**4/11/2007**		**7/17/2007**		**10/9/2007**		**1/7/2008**		**4/14/2008**	
	Units:	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		< 1.3	< 0.20	< 1300	< 200	< 130	< 20	< 1300	< 200	< 7500	< 1200	< 130	< 20	< 25	< 4.0
Chloroethane		< 0.53	< 0.20	< 530	< 200	< 53	< 20	< 530	< 200	< 3200	< 1200	< 53	< 20	< 11	< 4.0
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 0.81	< 0.20	943	233	67.2 J	16.6 J	< 810	< 200	< 4900	< 1200	< 81	< 20	28	6.8
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 790	< 200	46.4 J	11.7 J	< 790	< 200	< 4800	< 1200	35 J	8.8 J	16	4.1
Dichloroethylene,1,1-		< 0.79	< 0.20	619 J	156 J	< 79	< 20	< 790	< 200	< 4800	< 1200	< 79	< 20	< 16	< 4.0
Tetrachloroethylene (PCE)		< 1.4	< 0.20	269000	39700	52600	7760	178000 G	26200 G	1360000	200000	83400	12300	49600	7310
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 790	< 200	< 79	< 20	< 790	< 200	< 4800	< 1200	< 79	< 20	< 16	< 4.0
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	4650	853	715	131	2770	507	12800	2350	519	95.1	497	91.1
Trichloroethylene (TCE)		< 1.1	< 0.20	2600	484	466	86.7	1520	282	5590 J	1040 J	286	53.2	250	46.6
Vinyl chloride		< 0.51	< 0.20	< 510	< 200	< 51	< 20	< 510	< 200	< 3100	< 1200	< 51	< 20	< 10	< 4.0

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

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Table 11-3f
Risk Characterization Data - Soil Vapor
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	MW112													
	Sample ID:	MW112		MW112A		MW112A		SG-MW112A		MW112A-SG		MW112A-SG		MW112A-SG	
	Sample Date:	1/17/2007		3/20/2007		4/11/2007		7/17/2007		10/9/2007		1/7/2008		4/14/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.69 J	0.11 J	< 63	< 10	< 130	< 20	< 13	< 2.0	< 25	< 4.0	< 25	< 4.0	< 25	< 4.0
Chloroethane		< 0.53	< 0.20	< 26	< 10	< 53	< 20	< 5.3	< 2.0	< 11	< 4.0	< 11	< 4.0	< 11	< 4.0
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 0.81	< 0.20	429	106	155	38.2	359 G	88.6 G	1150	284	2280	564	449	111
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 40	< 10	< 79	< 20	< 7.9	< 2.0	40.8	10.3	360	90.9	38	9.6
Dichloroethylene,1,1-		< 0.79	< 0.20	821	207	318	80.3	777 G	196 G	2080	524	3400	857	476	120
Tetrachloroethylene (PCE)		2.8	0.41	6230	919	6240	920	8140	1200	11300	1660	17400	2570	6010 G	886 G
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 40	< 10	< 79	< 20	< 7.9	< 2.0	< 16	< 4.0	< 16	< 4.0	< 16	< 4.0
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	85.1	15.6	66.0 J	12.1 J	139 G	25.5 G	262	48.0	467	85.6	44	8.1
Trichloroethylene (TCE)		< 1.1	< 0.20	951	177	505	93.9	2030 G	377 G	3980	740	2930	546	1210	225
Vinyl chloride		< 0.51	< 0.20	< 26	< 10	< 51	< 20	< 5.1	< 2.0	< 10	< 4.0	24	9.5	< 10	< 4.0

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3f
Risk Characterization Data - Soil Vapor
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	MW114											
	Sample ID:	MW114		MW114		SG-MW114		MW114-SG		MW114-SG		MW114-S9	
	Sample Date:	2/19/2007		4/10/2007		7/17/2007		10/9/2007		1/7/2008		4/14/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 5.3	< 2.0	0.77	0.29	< 0.53	< 0.20	3.7	1.4	0.98	0.37	< 1.3	< 0.20
Chloroethane		< 31	< 5.0	< 1.3	< 0.20	0.69 J	0.11 J	0.88 J	0.14 J	< 1.3	< 0.20	< 0.53	< 0.20
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 8.1	< 2.0	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	17	2.5
Trans-1,2-Dichloroethylene		< 11	< 2.0	< 1.1	< 0.20	0.76 J	0.14 J	2.3	0.43	0.52 J	0.095 J	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 14	< 2.0	12	1.7	17	2.5	40	5.9	13	1.9	< 1.1	< 0.20
Trichloroethylene (TCE)		4	0.75	0.86 J	0.16 J	1.5	0.27	7.5	1.4	1.8	0.33	2.0	0.37
Vinyl chloride		< 5.1	< 2.0	0.36 J	0.14 J	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3f
Risk Characterization Data - Soil Vapor
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	MW115													
	Sample ID:	MW115		MW115		MW115		SG-MW115R		MW115-SG		MW115R-SG		MW115R-S9	
	Sample Date:	2/19/2007		3/20/2007		4/10/2007		7/17/2007		10/16/2007		1/7/2008		4/14/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		< 5.3	< 2.0	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	0.69 J	0.11 J
Chloroethane		< 13	< 2.0	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.63 J	0.10 J	2.8	0.44	< 0.53	< 0.20
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 8.1	< 2.0	0.65 J	0.16 J	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 7.9	< 2.0	1.3	0.33	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 7.9	< 2.0	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	2.1	0.31
Trans-1,2-Dichloroethylene		< 11	< 2.0	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.60 J	0.11 J	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		42	6.2	12	1.8	< 1.4	< 0.20	71.2	10.5	12	1.8	14	2.0	< 1.1	< 0.20
Trichloroethylene (TCE)		15	2.7	< 1.1	< 0.20	< 1.1	< 0.20	0.75 J	0.14 J	1.0 J	0.19 J	2.0	0.38	< 1.1	< 0.20
Vinyl chloride		< 5.1	< 2.0	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-3f
Risk Characterization Data - Soil Vapor
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location:	**MW118S**						**MW121S**				**MW122**			
	Sample ID:	**SG-MW118S**		**SG-MW118S**		**MW118S-SG**		**MW121S-SG**		**MW121S-SG**		**MW122-SG**		**MW122-SG**	
	Sample Date:	**7/17/2007**		**8/30/2007**		**4/14/2008**		**10/22/2007**		**1/8/2008**		**1/30/2008**		**4/14/2008**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		4.8	0.77	2.2	0.35	< 1.3	< 0.20	< 1.3	< 0.20	0.82 J	0.13 J	< 25	< 4.0	< 6.3	< 1.0
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 11	< 4.0	< 2.6	< 1.0
Chloroform		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	2.8	0.69	2.1	0.52	< 0.81	< 0.20	11 J	2.8 J	5.3	1.3
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	9.1 J	2.3 J	4.8	1.2
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	0.67 J	0.17 J	< 0.79	< 0.20	12 J	3.0 J	2.8 J	0.71 J
Tetrachloroethylene (PCE)		231	34.1	155	22.9	6.0	0.88	2.0	0.30	1.8	0.26	5320	784	1340	197
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 16	< 4.0	< 4.0	< 1.0
Trichloroethane,1,1,1- (TCA)		8.2	1.5	6	1.1	3.1	0.57	< 1.1	< 0.20	< 1.1	< 0.20	< 22	< 4.0	8.2	1.5
Trichloroethylene (TCE)		2.1	0.39	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	69.3	12.9	35	6.6
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	1.8	0.72	< 0.51	< 0.20	< 10	< 4.0	< 2.6	< 1.0

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and the result is estimated.

Table 11-4a
Risk Characterization Data - Indoor Air
Property Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	Garage				North Central Warehouse				North Office				North Warehouse			
	Sample Name:	50TUFTS-GA		50T-GA		50TUFTS-NC		50T-NC		50TUFTS-NO		50T-NO		50TUFTS-NW		50T-NW	
	Sample Date:	10/4/2007		12/7/2007		10/4/2007		12/7/2007		10/4/2007		12/7/2007		10/4/2007		12/7/2007	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		6.2	0.91	10	1.5	5.5	0.81	10	1.5	4.3	0.64	12	1.8	12	1.8	12	1.7
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = not tested.

Table 11-4a
Risk Characterization Data - Indoor Air
Property Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	**South Central Warehouse**												**South Office**			
	Sample Name:	**50TUFTS-SC1**		**50TUFTS-SC2 (FD)**		**50TUFTS-SC3 (FD)**		**50TUFTS-SC4 (FD)**		**50TUFTS-SC**		**50T-IA (FD)**		**50TUFTS-SO**		**50T-SO**	
	Sample Date:	**10/4/2007**		**10/4/2007**		**10/4/2007**		**10/4/2007**		**12/7/2007**		**12/7/2007**		**10/4/2007**		**12/7/2007**	
	Units:	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**	**µg/m³**	**ppbv**
Analyte	**Method**																
Volatile Organic Compounds (VOCs)	TO-15																
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		6.0	0.88	5.9	0.87	5.7	0.84	5.4	0.8	11	1.6	10	1.5	5.5	0.81	11	1.6
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = not tested.

Table 11-4b
Risk Characterization Data - Indoor Air
60 Tufts Street Exposure Area
50 Tufts Street
Somerville, Massachusetts

No Indoor Air Samples Were Assessed Within the "60 Tufts Street Area" Exposure Area

Table 11-4c
Risk Characterization Data - Indoor Air
Tufts Street and MBTA Railroad Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

No Indoor Air Samples Were Assessed Within the "Tufts Street and Railroad" Exposure Area

Table 11-4d
Risk Characterization Data - Indoor Air
Alston Street Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

No Indoor Air Samples Were Assessed Within the "Alston Street Area" Exposure Area

Table 11-4e
Risk Characterization Data - Indoor Air
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	163 Glen Street						85 Washington Street							
	Sample Name:	163GLEN-1A		163GLEN-1B		163GLEN-1		85WASH-1		85WASH-2		85WASH-AUDI		85WASH-PARK	
	Sample Date:	11/5/2007		11/5/2007		2/11/2008		11/14/2007		11/14/2007		2/12/2008		2/12/2008	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81 J+	< 0.20 J+	< 0.81 J+	< 0.20 J+	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		1.3 J	0.19 J	1.5	0.22	< 1.4	< 0.20	1.2 J J+	0.17 J J+	1.4 J+	0.21 J+	1.2 J	0.18 J	< 1.4	< 0.20
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79 J+	< 0.20 J+	< 0.79 J+	< 0.20 J+	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		0.87 J	0.16 J	0.93 J	0.17 J	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1 J+	< 0.20 J+	< 1.1 J+	< 0.20 J+	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51 J+	< 0.20 J+	< 0.51 J+	< 0.20 J+	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = not tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and the result is estimated.

J+ The result is estimated.

Table 11-4e

Risk Characterization Data - Indoor Air

Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	97 Washington Street												121 Washington Street					
	Sample Name:	97WASH1		97WASHB		97WASH-1		97WASH-B		97WASH-1		97WASH-B		121WASH-1A		121WASH-1B		121WASH-1	
	Sample Date:	6/14/2007		6/14/2007		11/5/2007		11/5/2007		2/5/2008		2/5/2008		11/6/2007		11/6/2007		2/11/2008	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**																		
Volatile Organic Compounds (VOCs)	TO-15																		
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		1.1 J G	0.16 J G	1.4 G	0.20 G	1.5	0.22	1.7	0.25	NT	NT	NT	NT	1.5	0.22	1.4	0.20	< 1.4	< 0.20
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		0.52 J	0.096 J	0.76 J	0.14 J	0.52 J	0.096 J	0.82 J	0.15 J	NT	NT	NT	NT	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	NT	NT	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "<" = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. NT = not tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and the result is estimated.
J+ The result is estimated.

Table 11-4f
Risk Characterization Data - Indoor Air
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

No Indoor Air Samples Were Assessed Within the "Within Neighborhood Streets Area" Exposure Area

Table 11-5a
Risk Characterization Data - Outdoor Air
Property Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	50 Tufts-North Parking Lot													
	Sample Name:	04516-50T-NP		04516-NP		50Tufts-NP		50TUFTS-NP		50T-NP		50TUFTS-NP		50TUFTS-NP2	
	Sample Date:	5/1/2007		5/14/2007		6/28/2007		10/4/2007		12/7/2007		5/1/2008		10/4/2007	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.75 J	0.12 J	< 1.3	< 0.2	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.2	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.2	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.2	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.2	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.2	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		1.8	0.26	7.5	1.1	12 G	1.7 G	3.9	0.57	2.2	0.33	0.65 J	0.096 J	7.5	1.1
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.2	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		0.38 J	0.070 J	0.98 J	0.18 J	2.0	0.36	0.50 J	0.091 J	< 1.1	< 0.20	< 1.1	< 0.20	1.2	0.22
Trichloroethylene (TCE)		< 1.1	< 0.20	0.64 J	0.12 J	1.6	0.3	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.75 J	0.14 J
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.2	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.

J The reported result is below the laboratory reporting limit and is estimated.

Table 11-5a
Risk Characterization Data - Outdoor Air
Property Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	50 Tufts-South Parking Lot													
	Sample Name:	04516-50T-SP		04516-SP		50Tufts-SP		50TUFTS-SP		50T-SP		50TUFTS-SP		50TUFTS-SP2	
	Sample Date:	5/1/2007		5/14/2007		6/28/2007		10/4/2007		12/7/2007		5/1/2008		10/4/2007	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.69 J	0.11 J	0.63 J	0.1 J	< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.2	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.2	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.2	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.2	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.2	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		3.7	0.54	2.8	0.42	1.8 G	0.26 G	< 1.3 J	< 0.19 J	2.0	0.29	1.4	0.21	9.5	1.4
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.2	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.2	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.6	0.30	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.2	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.2	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:
G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 11-5b
Risk Characterization Data - Outdoor Air
60 Tufts Street Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	**Tufts-O2**																**Tufts-O3**	
	Sample Name:	**TUFTS-O-2A**		**TUFTS-O-2B**		**TUFTS-O-2A**		**TUFTS-O-2B**		**TUFTS-O-2A**		**TUFTS-O-2B**		**TUFTS-0-2A**		**TUFTS-0-2B**		**TUFTS-O-3A**	
	Sample Date:	**3/23/2006**		**3/24/2006**		**6/29/2006**		**6/29/2006**		**9/28/2006**		**10/2/2006**		**12/15/2006**		**12/18/2006**		**10/2/2006**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**																		
Volatile Organic Compounds (VOCs)	TO-15																		
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.60 J	0.095 J	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	2.4	0.36	5.4	0.8	< 1.4	< 0.20	1.6	0.24	2.0	0.30	2.8	0.41	< 1.4	< 0.20
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.1	0.21	< 1.1	< 0.20	0.76 J	0.14 J	< 1.1	< 0.20	< 0.98 J	< 0.18 J	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.91 J	0.17 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 0.59 J	< 0.11 J	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.

Table 11-5c
Risk Characterization Data - Outdoor Air
Tufts Street and MBTA Railroad Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	Tufts-O1													
	Sample Name:	TUFTS-O-1A		TUFTS-O-1B		TUFTS-O-1A		TUFTS-O-1B		TUFTS-O-1A		TUFTS-O-1B		TUFTS-0-1A	
	Sample Date:	3/23/2006		3/24/2006		6/28/2006		6/28/2006		9/28/2006		10/2/2006		12/15/2006	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	1.2 J	0.18 J	8.1	1.2	< 1.4	< 0.20	< 1.4	< 0.20	< 0.88 J	< 0.13 J
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.65 J	0.12 J	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 11-5c
Risk Characterization Data - Outdoor Air
Tufts Street and MBTA Railroad Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	Tufts-O1 (continued)		Tufts-O2											
	Sample Name:	TUFTS-0-1B		TUFTS-O-2A		TUFTS-O-2B		TUFTS-O-2A		TUFTS-O-2B		TUFTS-O-2A		TUFTS-O-2B	
	Sample Date:	12/18/2006		3/23/2006		3/24/2006		6/29/2006		6/29/2006		9/28/2006		10/2/2006	
	Units:	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv	µg/m³	ppbv
Analyte	**Method**														
Volatile Organic Compounds (VOCs)	TO-15														
Carbon tetrachloride		0.82 J	0.13 J	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		2.7	0.40	< 1.4	< 0.20	< 1.4	< 0.20	2.4	0.36	5.4	0.80	< 1.4	< 0.20	1.6	0.24
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.1	0.21	< 1.1	< 0.20	0.76 J	0.14 J
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.91 J	0.17 J	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 11-5c
Risk Characterization Data - Outdoor Air
Tufts Street and MBTA Railroad Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	Tufts-O2				Tufts-O3		50 Tufts-North Parking Lot					
	Sample Name:	TUFTS-0-2A		TUFTS-0-2B		TUFTS-O-3A		04516-50T-NP		04516-NP		50Tufts-NP	
	Sample Date:	12/15/2006		12/18/2006		10/2/2006		5/1/2007		5/14/2007		6/28/2007	
	Units:	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv	μg/m^3	ppbv
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	0.60 J	0.095 J	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		2.0	0.30	2.8	0.41	< 1.4	< 0.20	1.8	0.26	7.5	1.1	12 G	1.7 G
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 0.98 J	< 0.18 J	< 1.1	< 0.20	0.38 J	0.070 J	0.98 J	0.18 J	2.0	0.36
Trichloroethylene (TCE)		< 1.1	< 0.20	< 0.59 J	< 0.11 J	< 1.1	< 0.20	< 1.1	< 0.20	0.64 J	0.12 J	1.6	0.30
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:
- G The result is estimated due to duplicate precision outside control limits.
- J The reported result is below the laboratory reporting limit and is estimated.

Table 11-5c
Risk Characterization Data - Outdoor Air
Tufts Street and MBTA Railroad Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	50 Tufts-North Parking Lot (continued)								50 Tufts-South Parking Lot			
	Sample Name:	50TUFTS-NP		50T-NP		50TUFTS-NP		50TUFTS-NP2		04516-50T-SP		04516-SP	
	Sample Date:	10/4/2007		12/7/2007		5/1/2008		10/4/2007		5/1/2007		5/14/2007	
	Units:	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv	µg/m^3	ppbv
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.10 J	< 1.3	< 0.20	0.69 J	0.11 J	0.63 J	0.1 J
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		3.9	0.57	2.2	0.33	0.65 J	0.096 J	7.5	1.1	3.7	0.54	2.8	0.42
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		0.50 J	0.091 J	< 1.1	< 0.20	< 1.1	< 0.20	1.2	0.22	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	0.75 J	0.14 J	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 11-5c
Risk Characterization Data - Outdoor Air
Tufts Street and MBTA Railroad Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	**50 Tufts-South Parking Lot (continued)**									
	Sample Name:	**50Tufts-SP**		**50TUFTS-SP**		**50T-SP**		**50TUFTS-SP**		**50TUFTS-SP2**	
	Sample Date:	**6/28/2007**		**10/4/2007**		**12/7/2007**		**5/1/2008**		**10/4/2007**	
	Units:	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**	**μg/m^3**	**ppbv**
Analyte	**Method**										
Volatile Organic Compounds (VOCs)	TO-15										
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.75 J	0.12 J	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		1.8 G	0.26 G	< 1.3 J	< 0.19 J	2.0	0.29	1.4	0.21	9.5	1.4
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	1.6	0.30	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. μg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

G The result is estimated due to duplicate precision outside control limits.
J The reported result is below the laboratory reporting limit and is estimated.

Table 11-5d
Risk Characterization Data - Outdoor Air
Alston Street Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	**Tufts-O4**	
	Sample Name:	**TUFTS-O-4A**	
	Sample Date:	**10/2/2006**	
	Units:	**µg/m³**	**ppbv**
Analyte	**Method**		
Volatile Organic Compounds (VOCs)	TO-15		
Carbon tetrachloride		< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20
Trans-1,2-Dichloroethylene		< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20

General Notes:
1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m³ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample location refer to Figure 7-6.

Table 11-5e
Risk Characterization Data - Outdoor Air
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	150 Glen-O1						150 Glen-O2					
	Sample Name:	150 GLEN-0-1A		150 GLEN-0-1B		150 GLEN-0-1A		150 GLEN-0-2A		150 GLEN-0-2B		150 GLEN-0-2A	
	Sample Date:	12/27/2006		12/28/2006		1/6/2007		12/27/2006		12/28/2006		1/6/2007	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	0.52 J J+	0.083 J J+	1.1 J	0.17 J	< 1.3	< 0.20	0.52 J J+	0.082 J J+
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-5e
Risk Characterization Data - Outdoor Air
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	**150 Glen-Roof**											
	Sample Name:	**150 GLEN-ROOF B**		**150 GLEN-ROOF**		**150GLEN-ROOF**		**150 GLEN-ROOF**		**150 GLEN-ROOF**		**150GLEN-ROOF**	
	Sample Date:	**2/8/2007**		**2/8/2007**		**3/8/2007**		**4/20/2007**		**5/17/2007**		**8/9/2007**	
	Units:	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**	**$\mu g/m^3$**	**ppbv**
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-5e
Risk Characterization Data - Outdoor Air
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	**150 Glen-Roof (continued)**											
	Sample Name:	**150GLEN-ROOF**		**150GLEN-ROOF**		**150GLEN-ROOF**		**150GLEN-ROOF**		**150GLEN ROOF**		**150GLEN-ROOF**	
	Sample Date:	**10/14/2007**		**11/14/2007**		**12/17/2007**		**1/21/2008**		**3/17/2008**		**4/21/2008**	
	Units:	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**	**µg/m^3**	**ppbv**
Analyte	**Method**												
Volatile Organic Compounds (VOCs)	TO-15												
Carbon tetrachloride		< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	< 1.3	< 0.20	0.69 J	0.11 J
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20	< 1.4	< 0.20
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. µg/m^3 = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-5e
Risk Characterization Data - Outdoor Air
Other Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

	Location Name:	150 Glen-Roof (continued)				Tufts-O5		Tufts-O6	
	Sample Name:	150GLEN-ROOF		150GLEN-ROOF		TUFTS-O-5A		TUFTS-O-6A	
	Sample Date:	2/19/2008		9/10/2007		10/2/2006		10/2/2006	
	Units:	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv	$\mu g/m^3$	ppbv
Analyte	**Method**								
Volatile Organic Compounds (VOCs)	TO-15								
Carbon tetrachloride		< 1.3	< 0.20	0.69 J	0.11 J	< 1.3	< 0.20	< 1.3	< 0.20
Chloroethane		< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20	< 0.53	< 0.20
Dichloroethane,1,1-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethane,1,2-		< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20	< 0.81	< 0.20
Dichloroethylene, cis-1,2-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Dichloroethylene,1,1-		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Tetrachloroethylene (PCE)		< 1.4	< 0.20	1.2 J	0.18 J	< 1.4	< 0.20	< 1.4	< 0.20
Trans-1,2-Dichloroethylene		< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20	< 0.79	< 0.20
Trichloroethane,1,1,1- (TCA)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Trichloroethylene (TCE)		< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20	< 1.1	< 0.20
Vinyl chloride		< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20	< 0.51	< 0.20

General Notes:

1. Analytes detected in at least one sample are reported here. For a complete list of analytes see the attached laboratory data sheets.
2. $\mu g/m^3$ = micrograms per cubic meter.
3. ppbv = parts per billion by volume.
4. "< " = The analyte was not detected at a concentration above the specified laboratory reporting limit.
5. For sample locations refer to Figure 7-6.
6. NT = not tested.

Qualifying Notes:

J The reported result is below the laboratory reporting limit and is estimated.
J+ The reported result is estimated.

Table 11-5f
Risk Characterization Data - Outdoor Air
Neighborhood Streets Area Exposure Area
50 Tufts Street
Somerville, Massachusetts

No Outdoor Air Samples Were Assessed Within the "Within Neighborhood Streets Area" Exposure Area

Table 11-6a
Exposure Point Concentrations (EPCs) at the Property
50 Tufts Street
Somerville, Massachusetts

Sample Type:	Soil	Soil	Groundwater	Soil Vapor	Outdoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
	Average 0-3'	Average 0-15'	Maximum of Temporal Averages	Maximum of Temporal Averages	Average of 50 Tufts Street Data	Temporal Average Office	Maximum Office	Temporal Average Warehouse and Garage	Maximum Warehouse and Garage	Temporal Average Entire Building
Unit:	mg/kg	mg/kg	µg/l	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3
Analyte										
Volatile Organic Compounds (VOCs)										
Carbon tetrachloride	0.047	0.048	140	NA	**	**	**	**	**	**
Chloroethane	0.12	0.12	250	NA	**	**	**	**	**	**
Chloroform	NA	NA	130	NA	**	**	**	**	**	**
Dichloroethane,1,1-	NA	NA	150	NA	0.41	0.41	0.41	0.41	0.41	0.41
Dichloroethylene, cis-1,2-	NA	NA	220	NA	0.40	0.40	0.40	0.40	0.40	0.40
Dichloroethylene,1,1-	NA	NA	3100	NA	0.40	0.40	0.40	0.40	0.40	0.40
Tetrachloroethylene (PCE)	3.1	11	62000	NA	5.5	8.2	12	8.3	12	8.3
Trans-1,2-Dichloroethylene	0.047	0.048	130	NA	0.40	0.40	0.40	0.40	0.40	0.40
Trichloroethane,1,1,1- (TCA)	NA	NA	140000	NA	0.88	0.55	0.55	0.55	0.55	0.55
Trichloroethylene (TCE)	0.067	0.064	110000	NA	0.69	0.55	0.55	0.55	0.55	0.55
Vinyl chloride	0.047	0.048	130	NA	0.26	0.26	0.26	0.26	0.26	0.26

General Notes:

1. mg/kg = milligrams per kilogram.
2. µg/l = micrograms per liter.
3. µg/m^3 = micrograms per cubic meter.
4. NA = no data were available for this compound in this medium.
5. ** = compound is not a COPC for this medium.

Table 11-6b
Exposure Point Concentrations (EPCs) on 60 Tufts Street (Worst Case)
50 Tufts Street
Somerville, Massachusetts

Sample Type:	Soil	Groundwater	Soil Vapor	Outdoor Air
	Maximum 0-15'	Maximum of Temporal Averages	Maximum of Temporal Averages	Sample "Tufts 04"
Unit:	mg/kg	µg/l	µg/m³	µg/m³
Analyte				
Volatile Organic Compounds (VOCs)				
Carbon tetrachloride	0.048	0.50	8.6	**
Chloroethane	0.12	1.0	4.1	**
Chloroform	NA	0.50	NA	**
Dichloroethane,1,1-	0.048	0.49	11	0.41
Dichloroethylene, cis-1,2-	0.048	0.50	8.0	0.40
Dichloroethylene,1,1-	0.048	4.2	130	0.40
Tetrachloroethylene (PCE)	0.18	29	6000	1.4
Trans-1,2-Dichloroethylene	0.048	0.50	5.5	0.40
Trichloroethane,1,1,1- (TCA)	0.048	18	1200	0.62
Trichloroethylene (TCE)	0.034	6.0	1200	0.58
Vinyl chloride	0.048	0.50	3.6	0.26

General Notes:

1. mg/kg = milligrams per kilogram.
2. µg/l = micrograms per liter.
3. µg/m^3 = micrograms per cubic meter.
4. NA = no data were available for this compound in this medium.
5. ** = compound is not a COPC for this medium.

Table 11-6c

Exposure Point Concentrations (EPCs) on Tufts Street and MBTA Railroad Area (Worst Case)

50 Tufts Street
Somerville, Massachusetts

Sample Type:	Soil	Soil	Groundwater	Soil Vapor	Outdoor Air
	Maximum 0-3'	Maximum 0-15'	Maximum of Temporal Averages	Maximum of Temporal Averages	
Unit:	mg/kg	mg/kg	µg/l	µg/m^3	µg/m^3
Analyte					
Volatile Organic Compounds (VOCs)					
Carbon tetrachloride	0.080	0.028	0.50	13	**
Chloroethane	0.20	0.056	1.0	5.5	**
Chloroform	NA	0.028	0.50	NA	**
Dichloroethane,1,1-	0.085	0.028	13	8.0	0.41
Dichloroethylene, cis-1,2-	0.085	0.028	13	8.0	0.40
Dichloroethylene,1,1-	0.085	0.028	13	8.0	0.40
Tetrachloroethylene (PCE)	0.099	0.32	12000	8800	3.5
Trans-1,2-Dichloroethylene	0.080	0.028	0.50	8.0	0.40
Trichloroethane,1,1,1- (TCA)	0.085	0.080	92	330	0.74
Trichloroethylene (TCE)	0.080	0.028	100	32	0.63
Vinyl chloride	0.080	0.028	0.50	5.0	0.26

General Notes:

1. mg/kg = milligrams per kilogram.
2. µg/l = micrograms per liter.
3. µg/m^3 = micrograms per cubic meter.
4. NA = no data were available for this compound in this medium.
5. ** = compound is not a COPC for this medium.

Table 11-6d
Exposure Point Concentrations (EPCs) on Alston Street Area (Worst Case)
50 Tufts Street
Somerville, Massachusetts

Sample Type:	Soil	Soil	Groundwater	Soil Vapor	Outdoor Air
	Maximum 0-3'	Maximum 0-15'	Maximum of Temporal Averages	Maximum of Temporal Averages	Sample "Tufts 04"
Unit:	mg/kg	mg/kg	µg/l	µg/m³	µg/m³
Analyte					
Volatile Organic Compounds (VOCs)					
Carbon tetrachloride	0.055	0.045	0.50	3.2	**
Chloroethane	0.14	0.11	1.0	1.4	**
Chloroform	0.055	0.045	0.50	NA	**
Dichloroethane,1,1-	0.055	0.045	0.50	1.0	0.41
Dichloroethylene, cis-1,2-	0.055	0.045	0.50	0.90	0.40
Dichloroethylene,1,1-	0.055	0.045	0.50	1.0	0.40
Tetrachloroethylene (PCE)	0.055	0.045	0.53	22	0.70
Trans-1,2-Dichloroethylene	0.055	0.045	0.50	0.90	0.40
Trichloroethane,1,1,1- (TCA)	0.055	0.045	0.50	1.7	0.55
Trichloroethylene (TCE)	0.055	0.045	2.0	2.9	0.55
Vinyl chloride	0.055	0.045	0.50	0.66	0.26

General Notes:

1. mg/kg = milligrams per kilogram.
2. µg/l = micrograms per liter.
3. µg/m^3 = micrograms per cubic meter.
4. NA = no data were available for this compound in this medium.
5. ** = compound is not a COPC for this medium.

Table 11-6e

Exposure Point Concentrations (EPCs) on Other Streets Area (Worst Case)

50 Tufts Street

Somerville, Massachusetts

Sample Type:	**Soil**	**Soil**	**Groundwater**	**Soil Vapor**	**Outdoor Air**
	Maximum 0-3'	**Maximum 0-15'**	**Maximum of Temporal Averages**	**Maximum of Temporal Averages**	
Unit:	**mg/kg**	**mg/kg**	**µg/l**	**µg/m³**	**µg/m³**
Analyte					
Volatile Organic Compounds (VOCs)					
Carbon tetrachloride	0.049	0.037	0.50	870	**
Chloroethane	0.12	0.095	15	360	**
Chloroform	0.049	0.037	8.9	NA	**
Dichloroethane,1,1-	0.13	0.43	77	1000	0.47
Dichloroethylene, cis-1,2-	0.049	0.77	200	1700	0.46
Dichloroethylene,1,1-	0.049	0.49	43	1300	0.46
Tetrachloroethylene (PCE)	0.99	59	6700	330000	0.82
Trans-1,2-Dichloroethylene	0.049	0.037	7.6	550	0.46
Trichloroethane,1,1,1- (TCA)	0.077	0.077	91	3700	0.64
Trichloroethylene (TCE)	0.36	6.2	150	2800	0.64
Vinyl chloride	0.049	0.037	58	350	0.30

General Notes:

1. mg/kg = milligrams per kilogram.
2. µg/l = micrograms per liter.
3. µg/m^3 = micrograms per cubic meter.
4. NA = no data were available for this compound in this medium.
5. ** = compound is not a COPC for this medium.

Table 11-6f

Exposure Point Concentrations (EPCs) for Utility Workers on Neighborhood Streets (Worst Case)

50 Tufts Street
Somerville, Massachusetts

Sample Type:	Soil	Groundwater	Soil Vapor
	Maximum 0-6'	Maximum of Temporal Averages	Maximum of Temporal Averages
Unit:	mg/kg	µg/l	µg/m^3
Analyte			
Volatile Organic Compounds (VOCs)			
Carbon tetrachloride	0.028	0.50	870
Chloroethane	0.056	1.0	360
Chloroform	0.028	13	NA
Dichloroethane,1,1-	0.13	49	800
Dichloroethylene, cis-1,2-	0.028	66	550
Dichloroethylene,1,1-	0.028	29	1300
Tetrachloroethylene (PCE)	0.99	12000	330000
Trans-1,2-Dichloroethylene	0.028	13	0.40
Trichloroethane,1,1,1- (TCA)	0.077	92	3700
Trichloroethylene (TCE)	0.36	140	1900
Vinyl chloride	0.028	13	350

General Notes:

1. mg/kg = milligrams per kilogram.
2. µg/l = micrograms per liter.
3. µg/m^3 = micrograms per cubic meter.
4. NA = no data were available for this compound in this medium.

Table 11-6g
Exposure Point Concentrations (EPCs) for Indoor Air at Current Commercial Buildings and Potential Future Residents
50 Tufts Street
Somerville, Massachusetts

Sample Type:	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air
	30-40 Alston	142 Cross	Maximum 163 Glen	Maximum 85 Washington	Weighted Average**** 97 Washington	Weighted Average**** 98 Washington	Maximum 121 Washington
Unit:	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3
Analyte							
Volatile Organic Compounds (VOCs)							
Carbon tetrachloride	***	***	**	**	**	**	**
Chloroethane	***	***	**	**	**	**	**
Chloroform	***	***	**	**	**	**	**
Dichloroethane,1,1-	***	***	0.41	0.41	0.41	0.41	0.41
Dichloroethylene, cis-1,2-	***	***	0.40	0.40	0.40	0.40	0.40
Dichloroethylene,1,1-	***	***	0.40	0.40	0.40	0.40	0.40
Tetrachloroethylene (PCE)	***	***	1.5	1.4	1.2	1.6	1.5
Trans-1,2-Dichloroethylene	***	***	0.40	0.40	0.40	0.40	0.40
Trichloroethane,1,1,1- (TCA)	***	***	0.93	0.55	0.57	0.71	0.55
Trichloroethylene (TCE)	***	***	0.55	0.55	0.55	0.55	0.55
Vinyl chloride	***	***	0.26	0.26	0.26	0.26	0.26

General Notes:

1. µg/m^3 = micrograms per cubic meter.
2. NA = no data were available for this compound in this medium.
3. ** = compound is not a COPC for this medium.
4. *** = medium was not evaluated (refer to text).
5. **** = weighted average incorporates temporal averages.

Table 13-1
In Situ Technologies Identified for Initial Screening Evaluation
50 Tufts Street
Somerville, Massachusetts

Media	Technology	Description
Soil	Enhanced Bioremediation	The activity of naturally occurring microbes is stimulated by circulating water-based solutions through contaminated soils to enhance *in situ* biological degradation of organic contaminants or immobilization of inorganic contaminants. Nutrients, oxygen, or other amendments may be used to enhance bioremediation and contaminant desorption from subsurface materials.
Soil	Bioventing	Oxygen is delivered to contaminated unsaturated soils by forced air movement (either extraction or injection of air) to increase oxygen concentrations and stimulate biodegradation.
Soil	Chemical Oxidation	Oxidation chemically converts contaminants to more innocuous compounds that are more stable, less mobile, and/or inert. For chlorinated VOCs, the oxidizing agents most commonly used are ozone, hydrogen peroxide, potassium permanganate, persulfate, hypochlorites, chlorine, and chlorine dioxide.
Soil	Soil Flushing	Water, or water containing an additive to enhance contaminant solubility, is applied to the soil or injected into the groundwater to raise the water table into the contaminated soil zone. Contaminants are leached into the groundwater, which is then extracted and treated.
Soil	Soil Vapor Extraction	Vacuum is applied via extraction wells to create a pressure/concentration gradient that induces gas-phase volatiles to be removed from soil through the extraction wells.
Soil	Thermal Treatment	Steam or hot air injection, or heating via electrical resistance, electromagnetic, fiber optic, radio frequency methods is used to increase the volatilization rate of semi-volatiles and facilitate extraction.
Soil	Pneumatic Soil Fracturing	Involves the injection of air or another gas under pressure, into unsaturated zone, creating micro-fractures for the advective transport of contaminants using soil vapor extraction.
Soil	Electrical Resistive Heating (ERH)	ERH uses electricity applied to the subsurface via electrodes. The electrodes can be installed either vertically to about 100 feet deep or horizontally underneath buildings. ERH assists soil vapor extraction (SVE) by heating the contaminants in the soil. It raises the vapor pressure of VOCs and SVOCs, increasing volatilization and removal. As electrical resistance heating dries the soil, it also creates a source of steam that strips contaminants from soils.
Groundwater	Directional Wells	Drilling techniques are used to position wells horizontally, or at an angle, to reach contaminants not accessible by direct vertical drilling.
Groundwater	Passive Treatment Walls	These barriers allow the passage of groundwater while causing the degradation or removal of contaminants.
Groundwater	Emulsified Zero-Valent Iron (EZVI)	EZVI involves placing nanoscale zero-valent iron particles into a surfactant-stabilized, biodegradable water-in-oil emulsion. This emulsion is injected into the DNAPL-contaminated zones of the subsurface. The DNAPL is then pulled into the emulsion where the contaminant reacts with the zero-valent iron. Through a process known as reductive dehalogenation, the DNAPL and its daughter products are degraded into ethane and other hydrocarbons. These by-products are ultimately degraded through biological activities in the subsurface.
Groundwater	Hydraulic Control	A network of groundwater extraction wells is installed along the boundary between the contaminant source and the downgradient plume. Groundwater is extracted from the aquifer at a rate sufficient to capture the contaminant flux and thereby enable attenuation of the downgradient plume. The extracted groundwater is then transferred for *ex situ* treatment prior to discharge.
Soil / Groundwater	Monitored Natural Attenuation	Natural attenuation relies on natural subsurface processes such as dilution, dispersion, adsorption, chemical degradation, and biodegradation to reduce contaminant concentrations in groundwater. Monitored natural attenuation (MNA) is the technique of monitoring selected field parameters and collecting subsurface data to evaluate the effectiveness of ongoing natural attenuation processes.
Soil / Groundwater	Physical Containment	Physical barriers consisting of vertically excavated trenches filled with slurry hydraulically shore trenches to prevent collapse and form a low permeability wall to reduce groundwater flow. One configuration for slurry wall installation is a "hanging" wall in which the wall projects into the groundwater table to block the movement of contamination.
Soil / Groundwater	Bioslurping	Bioslurping combines the two remedial approaches of bioventing and vacuum-enhanced free-product recovery. Bioventing stimulates the aerobic bioremediation of hydrocarbon-contaminated soils. Vacuum-enhanced free-product recovery extracts LNAPLs from the capillary fringe and the water table.
Soil / Groundwater	In Well Air Stripping	This method utilizes air sparging by injecting compressed air pumped into the bottom of the well to remove the contaminants. A submersible pump, placed at well bottom, forces the contaminated groundwater up toward the top of the well and above the groundwater table to a water dispersion device. As the contaminated groundwater leaves the dispersion device, additional cleanup occurs by air stripping. In addition, pumping fresh air into the subsurface enhances bioremediation by providing oxygen for growth and survival of the biodegrading microorganisms.
Soil / Groundwater	Dual-phase extraction	Dual-phase extraction uses a vacuum system to remove various combinations of contaminated groundwater, separate-phase petroleum product, and vapors from the subsurface. The system lowers the water table around the well, exposing more of the formation. Contaminants in the newly exposed vadose zone are then accessible to vapor extraction. Once above ground, the extracted vapors or liquid-phase organics and ground water are separated and treated.
Soil Vapor	Exposure Pathway Elimination Measures (EPEMs)	Physical barriers or venting systems designed to block the vapor migration pathway from soil gas to indoor air. Examples include membrane barriers or coatings applied to foundations, sub-slab ventilation systems, or sub-slab depressurization systems.

Table 13-2

Ex Situ Technologies Identified for Initial Screening Evaluation

50 Tufts Street
Somerville, Massachusetts

Media	Technology	Description
Soil	Excavation	Soils are excavated and stockpiled or loaded directly for transport to be managed by an ex-situ technology.
Soil	Slurry Phase Biological Treatment	An aqueous slurry is created by combining excavated soil, sediment, or sludge with water and other additives. The slurry is mixed to keep solids suspended and microorganisms in contact with the soil contaminants. Upon completion of the process, the slurry is dewatered and the treated soil is reused or disposed of.
Soil	Soil Washing	The excavated soil is flushed with a liquid solution to extract contaminants from the soil medium. The washed soil may be suitable for reuse or disposal. The used wash water is treated prior to reuse or disposal.
Soil	Biopiles	Excavated soils are mixed with soil amendments and placed in aboveground enclosures. It is an aerated, static pile, composting process in which the compost material is formed into piles and aerated with blowers or vacuum pumps.
Soil	Dehalogenation	Reagents are added to soils contaminated with halogenated organics. The dehalogenation process is achieved by either the replacement of the halogen molecules or the decomposition and partial volatilization of the contaminants.
Soil	Incineration	High temperatures, 870-1,200 °C (1,600- 2,200 °F), are used to combust (in the presence of oxygen) organic constituents in hazardous wastes.
Soil	Pyrolysis / Vitrification	Pyrolysis is chemical decomposition induced in organic materials by heat in the absence of oxygen. Organic materials are transformed into gaseous components and a solid residue (coke) containing fixed carbon and ash. Vitrification melts soil or other earthen materials at extremely high temperatures (1,600 to 2,000 °C or 2,900 to 3,650 °F) and thereby immobilize most inorganics and destroy organic pollutants by pyrolysis. Inorganic pollutants are incorporated within the vitrified glass and crystalline mass.
Soil	Thermal Desorption	Excavated soil is heated to volatilize water and organic contaminants. A carrier gas or vacuum system transports volatilized water and organics to the gas treatment system.
Groundwater	Bioreactors	Contaminants in extracted groundwater are put into contact with microorganisms in attached or suspended growth biological reactors. In suspended systems, such as activated sludge, contaminated groundwater is circulated in an aeration basin. In attached systems, such as rotating biological contractors and trickling filters, microorganisms are established on an inert support matrix.
Groundwater	Air Stripping	Volatile organics are partitioned from extracted groundwater by increasing the surface area of the contaminated water exposed to air. Aeration methods include packed towers, diffused aeration, tray aeration, and spray aeration.
Groundwater	Separation -- Membrane Pervaporation	Membrane pervaporation is a process that uses permeable membranes that preferentially adsorb volatile organic compounds (VOCs) from contaminated water. Contaminated water first passes through a heat exchanger, raising the water temperature. The heated water then enters the pervaporation module, containing membranes composed of a nonporous organophilic polymer, similar to silicone rubber, formed into capillary fibers. VOCs diffuse by vacuum from the membrane-water interface through the membrane wall. Treated water exits the pervaporation module, while the organic vapors travel from the module to a condenser where they return to the liquid phase. The condensed organic materials represent only a fraction of the initial wastewater volume and may be subsequently disposed of at a cost savings.
Groundwater	Sprinkler Irrigation	Sprinkler irrigation is a relatively simple treatment technology used to volatilize VOCs from contaminated wastewater. The process involves the pressurized distribution of VOC-laden water through a standard sprinkler irrigation system. Sprinkler irrigation transfers VOCs from the dissolved aqueous phase to the vapor phase, whereby the VOCs are released directly to the atmosphere.
Soil / Soil Vapor / Groundwater	Institutional Controls	Institutional controls are enforceable requirements for continued access to and preservation of structures or natural conditions on a property. Legal instruments, such as an Activity and Use Limitation (AUL), impose such requirements.

Table 13-3
In Situ Technologies: Initial Screening Evaluation Summary
50 Tufts Street
Somerville, Massachusetts

Remedial Technology	Relative Performance Information							Effectiveness	Implementability	Total Cleanup Time	Retained for Detailed Analysis?	Comments
	Development Status	Applicability to Tufts Street	Reliability and Maintenance	Availability	Cost	Capital or O&M Intensive	Residuals Generated					
Enhanced Bioremediation	Full Scale	Average	Average	Good	Low	O&M	None	Limited by low-permeability soils.	Optimum placement restricted by residential development	Decades	No	The low-permeability soil is likely to restrict effective area of enhanced activity.
Bioventing	Full Scale	Poor	Good	Good	Average	Capital	Vapor	Highly dependent upon soil moisture and permeability.	Incompatible with indoor air risk to residents.	Decades	No	Operation would potentially increase soil vapor migration to indoor air.
Chemical Oxidation	Full Scale	Good	Average	Good	High	Both	None	Limited by low-permeability soils.	Low permeability soils would require many injection wells at close spacing. Will require approval of multiple land owners.	Years	Yes	Persulfate is recommended as the oxidant, due to lesser health and safety risks in a residential area.
Soil Flushing	Full Scale	Poor	Average	Good	High	O&M	Liquid	Limited by low-permeability soils and nature of contaminants (VOCs).	The required injection and extraction systems may be infeasible in dense urban neighborhood.	Years	No	The combination of many injection and extraction locations in residential neighborhood and low permeability soil makes this technology logistically infeasible.
Soil Vapor Extraction	Full Scale	Good	Average	Good	Average	O&M	Vapor	Shown to be effective at 50 Tufts Street.	Readily implemented in open areas.	Years	Yes	Requires off-gas treatment
Thermal Treatment	Full Scale	Poor	Average	Average	Average	O&M	Vapor	Effective for VOCs	Likely infeasible due to impacts on residential neighborhood and numerous subsurface utilities.	Months	No	Heating of subsurface incompatible with residential neighborhood and subsurface utilities, may increase soil vapor migration to indoor air.
Pneumatic Soil Fracturing	Full Scale	Poor	Poor	Poor	Average	O&M	Vapor	Would increase effectiveness of SVE systems.	SVE required with this approach. SVE use limited to undeveloped areas of the Site.	Years	No	SVE applicability and increased efficiency of SVE systems unlikely to support incremental cost.
Electrical Resistive Heating	Full Scale	Poor	Average	Average	Average	O&M	Vapor	Effective for VOCs	Likely infeasible due to uncontrolled impacts on residential neighborhood and numerous subsurface utilities.	Months	No	Heating of subsurface incompatible with residential neighborhood and subsurface utilities, may increase soil vapor migration to indoor air.
Directional Wells	Full Scale	Good	Good	Good	Low	Capital	Soil	May increase effectiveness of conventional SVE or Hydraulic Control systems	Specialized equipment is required, subsurface utilities or structures may be impacted.	N/A	Yes*	* Retained for consideration as design option for other remedial approaches (e.g. SVE, Hydraulic Control, Chemical Oxidation).
Passive Treatment Walls	Full Scale	Poor	Average	Average	High	Capital	Soil	Technology is proven effective for VOC removal but may be limited due to low permeability soil.	Significant installation difficulty due to dense urban development, subsurface structures and numerous utilities.	Decades	No	Installation incompatible with urban, residential neighborhood.
Emulsified Zero-Valent Iron	Full Scale	Average	Average	Average	High	Both	None	Limited by low permeability soil conditions.	Optimum injection placement restricted by residential development	Years	No	The low-permeability soil is likely to restrict effective area of treatment.
Hydraulic Control	Full Scale	Good	Average	Good	High	Both	Liquid	Numerous extraction wells required due to low permeability soil.	Will require approval of multiple land owners.	Decades	Yes	Requires groundwater treatment and disposal of treatment media.
Monitored Natural Attenuation	Full Scale	Good	Good	Good	Low	O&M	None	Depends on availability of naturally occurring degrading organisms	Readily implemented.	Decades	Yes	Retained as a component of other remedial approaches.
Physical Containment	Full Scale	Average	Average	Good	High	Capital	Soil	Incremental benefit is marginal due to already existing low permeability soil.	Significant installation difficulty due to dense urban development, subsurface structures and numerous utilities.	N/A	No	Installation incompatible with urban, residential neighborhood.
Bioslurping	Full Scale	Good	Average	Average	Average	O&M	Vapor	Depends on availability of naturally occurring degrading organisms	Low permeability soils would require many wells at close spacing. Will require approval of multiple land owners.	Years	No	The low-permeability soil is likely to restrict effective area of enhanced activity.
In Well Air Stripping	Full Scale	Average	Average	Good	High	Capital	Vapor	Effective for VOCs	Would require that off-gas be captured for treatment.	Decades	No	*Ex situ* air stripping considered as design component of Hydraulic Control.
Dual-phase extraction	Full Scale	Good	Average	Good	High	O&M	Liquid, vapor	Limited by low-permeability soils.	Low permeability soils would require many extraction wells at close spacing. Will require approval of multiple land owners.	Decades	Yes	Requires groundwater and off-gas treatment and disposal of treatment media.
Exposure Pathway Elimination Measures (EPEMs)	Full Scale	Good	Good	Good	Average	Capital	None or vapor	Proven effective for several residences and buildings at the Site.	Readily implemented with owner's approval.	N/A	Yes	Retained as a component of other remedial approaches.

Table 13-4
Ex Situ Technologies: Initial Screening Evaluation Summary
50 Tufts Street
Somerville, Massachusetts

Remedial Technology	Target Media	Relative Performance Information							Effectiveness	Implementability	Total Cleanup Time	Retained for Detailed Analysis?	Comments
		Development Status	Applicability to Tufts Street	Reliability and Maintenance	Availability	Cost	Capital or O&M Intensive	Residuals Generated					
Excavation	Soil	Full Scale	Average	Good	Good	High	O&M	Soil	Would effectively remove shallow source material.	Feasible in open areas, difficult if subsurface utilities or structures are present. May require sprung structures or other air control measures.	Months	No	Very high cost and extremely disruptive to the residential neighborhood. Excavated soil requires treatment or disposal.
Slurry Phase Biological Treatment	Soil	Full Scale	Average	Average	Average	High	O&M	Liquid	May be effective for VOC removal.	Extended treatment time may be infeasible for on-site treatment and subsequent reuse as backfill.	Months	No	Requires soil excavation which is not retained.
Soil Washing	Soil	Full Scale	Poor	Average	Average	High	O&M	Liquid	Limited effectiveness for VOCs in soil.	Treatment time may be too long for on-site treatment and subsequent reuse as backfill.	Months	No	Requires soil excavation which is not retained.
Biopiles	Soil	Full Scale	Average	Average	Good	High	O&M	Soil	May be effective for VOC removal.	Would likely require off-site location due to space requirements. Off-gas controls may be required.	Months	No	Requires soil excavation which is not retained.
Dehalogenation	Soil	Full Scale	Average	Average	Average	High	O&M	Soil	Limited effectiveness against chlorinated VOC concentrations greater than 5%.	Would likely require off-site location due to space requirements. Off-gas controls may be required.	Months	No	Requires soil excavation which is not retained.
Incineration	Soil	Full Scale	Average	Average	Average	High	O&M	Soil	Would effectively destroy contamination in soil.	Extensive truck traffic to ship contaminated soil to off-site facility.	Months	No	Requires soil excavation which is not retained.
Pyrolysis / Vitrification	Soil	Full Scale	Average	Average	Average	High	O&M	Soil	Would effectively destroy contamination in soil.	Extensive truck traffic to ship contaminated soil to off-site facility.	Months	No	Requires soil excavation which is not retained.
Thermal Desorption	Soil	Full Scale	Good	Good	Good	High	O&M	Gas	Effective for removing VOCs.	For on-site treatment, requires large handling and treatment area. Off-gas treatment would be required.	Months	No	Requires soil excavation which is not retained.
Bioreactors	Soil	Full Scale	Average	Poor	Good	High	O&M	None	Startup time can be slow to acclimate organisms to contamination.	Requires storage of large bioreactor onsite.	Months	No	Requires soil excavation which is not retained.
Air Stripping	Groundwater	Full Scale	Good	Average	Good	Average	O&M	Air	Proven effective for VOC removal from water at contaminated sites.	Readily implemented if space is available for treatment building. Requires off-gas treatment in residential area.	N/A	Yes	Retained as design option for Hydraulic Control water treatment
Separation -- Membrane Pervaporation	Groundwater	Full Scale	Poor	Poor	Good	High	O&M	Liquid	Likely effective.	Readily implemented if space is available for treatment building.	N/A	No	Eliminated due to greater uncertainty and complexity vs. air stripping.
Sprinkler Irrigation	Groundwater	Full Scale	Average	Average	Good	Low	O&M	Vapor	Likely effective.	Not compatible with residential area due to VOCs released to atmosphere and large space requirements.	N/A	No	Eliminated because VOCs released directly to atmosphere and incompatible with residential area
Institutional Controls	All	Full Scale	Good	Good	Good	Low	O&M	None	Effectively controls exposure pathways.	Readily implemented with owner's approval.	N/A	**Yes**	

Table 13-5
Detailed Evaluation Summary
Phase III Remedial Action Plan
50 Tufts Street
Somerville, Massachusetts

Criteria	Subcriteria	Remedial Alternative				
		RAA1 Site-wide EPEMs and MNA	RAA2 SVE at the Property, Site-wide EPEMs, and MNA	RAA3 DPE, at and Immediately East of the Property, MNA, and Downgradient EPEMs	RAA4 Chem-Ox, at and Immediately East of the Property, MNA, and Downgradient EPEMs	RAA5 Hydraulic Control, MNA, and Site-wide EPEMs
Effectiveness	Achieves a temporary or permanent solution	2	2	1	1	2
	Reuses/recycles/destroys/detoxifies/treats contaminants	4	2	1	1	3
	Achieves or approaches background	5	5	5	5	5
	Score	**11**	**9**	**7**	**7**	**10**
Reliability	Certainty of success	1	1	3	4	2
	Effectiveness of measures to manage remaining wastes, residues, and discharges to the environment	1	2	4	5	3
	Score	**2**	**3**	**7**	**9**	**5**
Implementation Difficulties	Technical complexity	1	2	4	5	3
	Integration with existing facilities	1	2	5	3	4
	Monitoring, operations, maintenance, and site access	1	2	4	4	5
	Availability of services	1	1	2	2	1
	Availability, capacity, and location of off-site disposal facilities	0	0	0	0	0
	Other regulatory requirements	1	2	4	3	4
	Score	**5**	**9**	**19**	**17**	**17**
Cost	**Score**	**1**	**2**	**5**	**3**	**4**
Risks	Short-term, on- and off-site risks	1	2	4	3	4
	Risks to attain applicable remedial standards	1	2	3	5	4
	Potential risk of any contaminants remaining onsite at completion of remedy	3	2	1	1	1
	Score	**5**	**6**	**8**	**9**	**9**
Benefits	Restoring natural resources	0	0	0	0	0
	Productive site reuse	2	2	1	1	3
	Avoided costs of relocating people and businesses, or providing alternative water supplies	1	1	3	3	2
	Avoided lost value of property	4	3	1	1	2
	Score	**7**	**6**	**5**	**5**	**7**
Timeliness to Achieve No Significant Risk	**Score**	**1**	**1**	**3**	**2**	**4**
Non-Pecuniary Interests (aesthetic values)	**Score**	**1**	**1**	**3**	**4**	**2**
Total Score (Lowest score is preferred)		**33**	**37**	**57**	**56**	**58**

General Notes:

1. The scoring system was based on assigning a relative rating of 1 to 5 for each RAA for each subcriteria, with the lower score preferred. Some or all of the RAAs may be assigned the same rating. The ratings were then summed to produce a criteria score, and the criteria score were, in turn, summed to produce an overall score for each alternative. Because the scoring system is based on rating each subcriteria, the four criteria with the most subcriteria (Effectiveness, Implementation Difficulties, Benefits, and Risks) account for 75 percent of the potential score. This has the effect of de-emphasizing cost in the qualitative evaluation.
2. The RAA description statements presented in Section 9.4 form the basis for each of the ratings.

Phase II CSA, Method 3 Risk Characterization, & Phase III RAP

Appendices A, B, C, D, E, F, G, I, J

50 Tufts Street, Somerville, MA

GEI Project No. 04516-2

061-4825

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